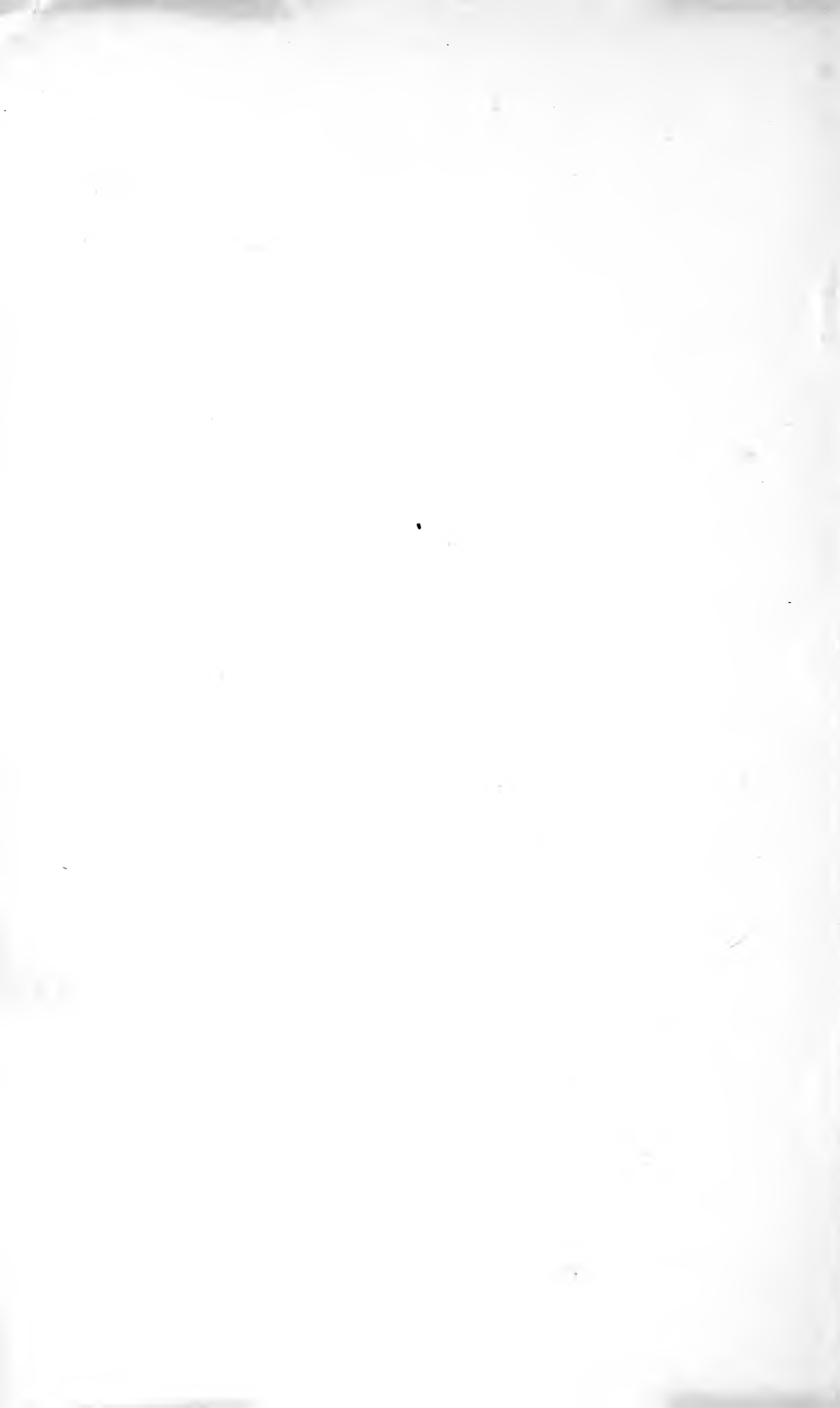


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BATHYMETRICAL SURVEY
OF THE
FRESH WATER LOCHS
OF
SCOTLAND

UNDER THE DIRECTION OF
SIR JOHN MURRAY, K.C.B. F.R.S.
AND
LAURENCE PULLAR, F.R.S.E.

VOL. III.
PLATES.



Apr 14



BATHYMETRICAL SURVEY
OF THE
SCOTTISH FRESH-WATER LOCHS

Report on the Scientific Results

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BATHYMETRICAL SURVEY

OF THE

SCOTTISH FRESH-WATER LOCHS

CONDUCTED UNDER THE DIRECTION OF

SIR JOHN MURRAY
K.C.B., F.R.S., D.Sc., Etc.

AND

LAURENCE PULLAR
F.R.S.E., F.R.G.S.

DURING THE YEARS 1897 TO 1909

Report on the Scientific Results

VOLUME III

EDINBURGH
CHALLENGER OFFICE
1910



Dedicated
TO THE MEMORY OF
FREDERICK PATTISON PULLAR
WHO WAS DROWNED
WHILE ATTEMPTING TO SAVE THE LIVES OF OTHERS
ON 15TH FEBRUARY 1901
AT THE AGE OF TWENTY-FIVE YEARS

*He took an active part in the initiation
of this systematic survey of the
Scottish Fresh-water Lochs*

PREFACE

THIS publication consists of six volumes, two of text and four of maps, and gives an account of the work done, of the observations recorded, and of most of the results obtained, during an investigation into the bathymetry of the fresh-water lochs or lakes of Scotland between the years 1897 and 1909.

Although the determination of the depths of the lakes, and of the general form of the basins in which they lie, made up the principal work of the Survey, still a very large number of observations were carried out in other branches of the science of limnography. Many of these observations and the results were published from time to time, as the work proceeded, in scientific journals, while others now appear in print for the first time.

Volume I. consists for the most part of new matter. It includes numerous articles dealing with the general results of the researches from the topographical, geological, physical, chemical, and biological points of view, a comparison of Scottish lakes with lakes in other parts of the world, and various theoretical considerations. These articles have been written chiefly by gentlemen who have taken an active part in the field-work of the Survey. This volume also contains an extensive bibliography of books and special papers referring to lakes.

Volume II. contains the special descriptions of the lakes, the maps of which appear in Volumes III., IV., V., and VI. Throughout the text will be found numerous index-maps, showing the drainage areas of the districts in which the lochs are situated, together with other illustrations.

The bathymetrical maps have all appeared during the past eight years in the *Journal of the Royal Geographical Society* or in an extra publication of the same Society; and some of the maps have also been published in the

Magazine of the Royal Scottish Geographical Society. These maps consist of two series. In the first series (Volumes III. and IV.), the contours of depth in the lakes are shown in shades of blue, and the contours of the height of the surrounding land are shown in brown shades of colour; in the second series (Volumes V. and VI.), the contours of depth are shown in shades of blue, the brown shades on the land being omitted.

In addition to the bathymetrical maps, there are also a few maps showing the surface geology, the rainfall, and other physical features of some of the districts.

These maps have all been prepared and printed by Dr J. G. Bartholomew, and we desire to express our indebtedness to him for the care with which these have been produced, and for his assistance and advice in many directions. We are also indebted to Messrs G. Cornwall & Sons, Aberdeen, for their assistance and advice with regard to the binding of the maps, and to Messrs Neill & Co., Edinburgh, for their advice in connection with the letterpress.

We feel confident that the whole investigation has resulted in very substantial contributions to knowledge. Some of the observations—those regarding the temperature seiche, and the variation of the viscosity of the water with temperature, for example—throw much light on obscure oceanographical problems. Most of the observations could, with advantage, have been carried further, by means of improved instruments and methods suggested during the progress of the work, but it was found necessary to terminate the survey, at least in the meantime, and to review what had been accomplished. We are conscious of many shortcomings.

In conclusion, we tender our best thanks to all who have assisted us in carrying these investigations to a successful conclusion.

JOHN MURRAY.

LAURENCE PULLAR.

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STATISTICAL TABLES OF THE SCOTTISH FRESH-WATER LOCHS

(Surveyed during the years 1897 to 1909)

DURING the course of the Lake Survey work 562 of the Scottish fresh-water lochs were surveyed. These include all the principal lochs of the country, and a very large number of the smaller and less important ones. As a matter of fact, all lochs were surveyed on which boats could be found at the time the work was being carried out. To have included all the smaller highland and less accessible lochs and tarns would have very greatly increased the expense and the time involved. To transport a boat to many of the remote lochs in the Highlands would have entailed much labour and difficulty, not to speak of the objections of proprietors, keepers, and others, who do not wish to have grouse moors and deer forests disturbed at a time of the year when the lochs are most accessible.

The general results of the survey work are, however, in no way affected by these smaller lochs having been excluded, for a great many lochs have been surveyed in all districts of the country.

The following tables are intended to summarise the results which are given in detail in Volume II. of this Report.

Table I. shows the lakes arranged according to their lengths.

Table II. shows the lakes arranged according to their superficial areas.

Table III. shows the lakes arranged according to their maximum depths.

Table IV. shows the lakes arranged according to their mean depths.

Table V. shows the lakes arranged according to the volume of water in each.

Table VI. shows:—

- (a) The number of lakes surveyed in the various river basins ;
- (b) The number of soundings taken in the lakes of the various river basins ;

- (c) The volume of water in the lakes of the various river basins in millions of cubic feet ;
- (d) The superficial area of the lakes in the various river basins ;
- (e) The extent of the drainage area in the various river basins, together with the ratio of the drainage area to the superficial area of the lakes.

The information in Table VI. is extracted from the tables given in greater detail in the descriptions which will be found in Volume II. of this Report.

From this table it will be seen that 562 lochs have been surveyed, and that the number of soundings recorded on the maps of these lochs is 59,195. The actual number taken exceeds 60,000. The aggregate area of the water-surface is over 340 square miles, and therefore the average number of soundings per square mile of surface is 174.

The aggregate volume of water contained in these 562 lochs is estimated at about 1,015,814 millions of cubic feet, or nearly 7 cubic miles. The area drained by the lochs is about 6669 square miles, or about $19\frac{1}{2}$ times the area of the lochs.

TABLE I

FRESH-WATER LOCHS OF SCOTLAND (SOUNDED BY THE LAKE SURVEY)
ARRANGED ACCORDING TO LENGTH

Loch.	Length. Miles.	Loch.	Length. Miles.
1. Awe (Etive)	25·47	55. Beoraid	3·43
2. Ness	24·23	56. Dùn na Seilcheig	3·41
3. Lomond	22·64	57. Eilt	3·37
4. Shiel	17·40	58. na Meide	3·33
5. Shin	17·22	59. Avich	3·30
6. Tay	14·55	60. Stack	3·27
7. Ericht	14·50	61. Affric	3·20
8. Maree	13·46	62. Ossian	3·20
9. Arkaig	12·00	63. Skinaskink	3·16
10. Morar	11·68	64. Cliff	3·16
11. Lochy	9·78	65. Coir' an Fhearna	3·15
12. Rannoch	9·70	66. Bà (Mull)	3·04
13. Katrine	8·00	67. Obisary	3·03
14. Langavat (Lewis)	7·86	68. Merkland	3·02
15. Laggan	7·04	69. St Mary's	3·02
16. Quoich	6·95	70. nan Cuinne	3·00
17. Fannich	6·92	71. Watten	3·00
18. Earn	6·46	72. Trealaval	2·90
19. Assynt	6·36	73. Càrn	2·76
20. Naver	6·18	74. Loyne (East)	2·75
21. Hope	6·13	75. Tummel	2·75
22. Eck	6·02	76. Suainaval	2·68
23. Fionn (Gruinard)	5·76	77. a' Bhraoin	2·66
24. Doon	5·64	78. Beinn a' Mheadhoin	2·64
25. Laidon	5·30	79. nan Eun (N. Uist)	2·63
26. Treig	5·10	80. Fadagaoa	2·60
27. Luichart	5·05	81. Garry (Tay)	2·55
28. Garry (Ness)	4·90	82. Strom	2·54
29. Mhor	4·84	83. Tulla	2·50
30. Harray	4·84	84. Talla	2·47
31. Ken	4·62	85. Fionn (Kirkraig)	2·40
32. Frisa	4·50	86. nan Geireann (Mill)	2·39
33. Scadavay (East)	4·50	87. Calder	2·32
34. Laoghal	4·46	88. Morie	2·30
35. Clunie (Ness)	4·28	89. Ard	2·30
36. Mullardoch	4·16	90. Grunavat	2·26
37. More (Laxford)	4·11	91. Ruthven	2·26
38. Monar	4·10	92. Muick	2·22
39. Veyatie	4·05	93. Langavat (Benbecula)	2·20
40. Glass	4·03	94. Lochindorb	2·18
41. Expansions of River Dee . .	4·02	95. Bà (Tay)	2·15
42. Oich	4·02	96. Bad a' Ghaill	2·13
43. Vennachar	4·00	97. Boardhouse	2·03
44. Lubnaig	4·00	98. Grennoch	2·02
45. Damh (Torridon)	3·93	99. Dhùghaill (Carron)	2·02
46. Lurgain	3·87	100. Skebacleit	2·00
47. Scadavay (West)	3·80	101. Swannay	2·00
48. Stenness	3·79	102. Eilde Mòr	1·98
49. na Sheallag	3·74	103. Migdale	1·92
50. Fada (Ewe)	3·74	104. na Sàlach Uidhre	1·90
51. Leven	3·65	105. Urigill	1·86
52. Brora	3·53	106. Beannachan	1·85
53. Voil	3·50	107. Arienas	1·85
54. a' Chroisg	3·47	108. Achall	1·83

TABLE I—*continued*

Loch.	Length. Miles.	Loch.	Length. Miles.
109. na h-Earba (West)	1·80	169. Shurrery	1·28
110. Fada (N. Uist)	1·80	170. Harperrig	1·27
111. Woodhall	1·79	171. Buidhe (Fleet)	1·27
112. a' Bhealaich (Gairloch)	1·78	172. na h-Earba (East)	1·27
113. Thom	1·78	173. Hunder	1·26
114. Lyon	1·74	174. Kirbister	1·26
115. Freuchie	1·74	175. Bunacharan	1·26
116. na h-Oidhche	1·73	176. an t-Seilich	1·26
117. Castle Semple	1·72	177. Martnaham	1·26
118. Eye	1·72	178. Achray	1·25
119. an Daimh (Shin)	1·71	179. Rescobie	1·24
120. Baddanloch	1·70	180. Beannach (Inver)	1·24
121. Chon (Forth)	1·70	181. Urrahag	1·24
122. Nell	1·68	182. Loch	1·23
123. Trool	1·68	183. Droma	1·23
124. Heouravay	1·68	184. Dubh (Gruinard)	1·23
125. Leum a' Chlamhain	1·62	185. Muckle Water	1·21
126. Fiodhaig	1·61	186. an Gead	1·21
127. Heilen	1·60	187. Sloy	1·21
128. Olavat	1·60	188. Lowes (Tay)	1·20
129. Fad	1·60	189. Castle (Bladenoch)	1·20
130. Menteith	1·60	190. Inbhir	1·20
131. Ashie	1·60	191. Maberry	1·19
132. a' Bhealaich (Naver)	1·60	192. Dee	1·18
133. a' Bhaid-Luachraich	1·57	193. a' Bharpa	1·18
134. Creagach	1·57	194. Garbhaig	1·18
135. Owskeich	1·56	195. an Duin (Spey)	1·18
136. Gladhouse	1·56	196. Tralaig	1·16
137. an Dithreibh	1·55	197. an Stommore	1·15
138. Seamadale	1·54	198. na Leitreach	1·14
139. an Ruathair	1·54	199. Oban nam Fiadh	1·13
140. Garve	1·54	200. Sgambain	1·12
141. a' Chlàir (Helmsdale)	1·53	201. Calavie	1·12
142. Fada (Gruinard)	1·52	202. Killin	1·12
143. Mochrum	1·50	203. nam Breac	1·12
144. a' Ghriama	1·50	204. an Eilein (Spey)	1·10
145. Threipmuir	1·50	205. Milton	1·10
146. Girlsta	1·48	206. Meiklie	1·10
147. Finlas	1·46	207. Auchenreoch	1·08
148. Pouлары	1·46	208. Forfar	1·07
149. an Tomain	1·45	209. Crogavat	1·06
150. Caravat	1·45	210. Kinord	1·06
151. Lungard	1·44	211. Benachally	1·05
152. Dilate	1·43	212. a' Bhailidh	1·04
153. an Dùin (N. Uist)	1·40	213. Turret	1·04
154. Cròcach	1·40	214. More Barvas	1·04
155. Gorm Loch Mòr	1·39	215. Gartmorn	1·04
156. Clair (Ewe)	1·38	216. Insh	1·03
157. Lintrathen	1·38	217. Moy	1·03
158. Black (Ryan)	1·36	218. Borralan	1·03
159. Strandavat	1·36	219. Pattack	1·03
160. a' Chuilinn (Conon)	1·35	220. Morlich	1·02
161. Iubhair	1·35	221. Tingwall	1·02
162. Kernsary	1·35	222. an Staca	1·02
163. Coulin (Ewe)	1·33	223. ic Colla	1·00
164. Kilbirnie	1·32	224. na Craobhaig	1·00
165. Spiggie	1·30	225. Vatandip	1·00
166. Hundland	1·30	226. Gainmheich (South)	1·00
167. Knockie	1·30	227. Wester	1·00
168. Loyne (West)	1·28	228. Drunkie	1·00

STATISTICAL TABLES

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TABLE I—continued

Loch.	Length. Miles.	Loch.	Length. Miles.
229. Arklet	1'00	289. na Creige Duibhe	0'80
230. Doine	1'00	290. na Moracha	0'80
231. an Lagain	1'00	291. Kindar	0'80
232. Skaill	0'98	292. Builg	0'80
233. Skene (Dee)	0'98	293. Kirk Dam	0'80
234. na Beinne Bàine	0'97	294. Crò Criosdaig	0'80
235. Bodavat	0'96	295. Eela	0'79
236. Cùil na Sìthe	0'96	296. Chaluim	0'78
237. Daimh (Tay)	0'96	297. Skiach	0'78
238. Ailsh	0'95	298. Hempriggs	0'77
239. Cuil Airidh a' Flod	0'94	299. Lochrutton	0'77
240. Alvie	0'94	300. Airidh na Lie	0'76
241. Gryfe	0'94	301. Raoinavat	0'76
242. na Cuaich	0'94	302. Gelly	0'76
243. Con (Tay)	0'94	303. Lundie (Garry)	0'76
244. Dungeon	0'93	304. na Mòine Buige	0'76
245. Skealtar	0'93	305. Araich-Lin	0'75
246. Clousta	0'92	306. an Laig Aird	0'74
247. Dubh (Gairloch)	0'92	307. Davan	0'74
248. Nant	0'90	308. nam Breac Dearga	0'74
249. Tollie	0'90	309. Muckle Lunga	0'74
250. Hermidale	0'90	310. nan Deaspoirt	0'74
251. Huna	0'90	311. Bran	0'74
252. Bradan	0'90	312. Howie	0'74
253. Fitty	0'90	313. a' Ghobhainn	0'73
254. Peppermill	0'90	314. Druim Suardalain	0'73
255. North-house	0'90	315. na Lairige	0'73
256. Ochiltree	0'89	316. Stacsavat	0'72
257. White (Ryan)	0'88	317. an Draine	0'72
258. Ceò-Glas	0'88	318. Skeen (Annan)	0'72
259. Allt an Fheàrna	0'88	319. Sguod	0'72
260. Eigheach	0'88	320. Broom	0'72
261. Achilty	0'87	321. Skerrow	0'70
262. Tankerness	0'86	322. na Bi	0'70
263. More (Thurso)	0'86	323. Eileach Mhic' ille Riabhaich	0'70
264. a' Bhaid Daraich	0'86	324. Tearnait	0'70
265. Crombie Den	0'86	325. Syre	0'70
266. Lùnn dà-Bhrà	0'86	326. Caol na Doire	0'70
267. Drumellie	0'86	327. Long	0'70
268. a' Mhuillin	0'84	328. nan Lann	0'70
269. Vaara	0'84	329. Carlingwark	0'70
270. Achanalt	0'84	330. Benisval	0'70
271. Callater	0'84	331. Bad an Sgalaig	0'69
272. Lewes (Tweed)	0'84	332. Spynie	0'69
273. Oban a' Chlachain	0'84	333. Tariff	0'69
274. Ussie	0'84	334. Tormasad	0'69
275. Lindores	0'84	335. Seil	0'68
276. Scarmclate	0'84	336. Ghuiragarstidh	0'68
277. Truid air Sgithiche	0'84	337. Baile a' Ghobhainn	0'68
278. a' Bhuird	0'84	338. Crunachan	0'68
279. na Moine	0'83	339. Rosebery	0'68
280. Castle (Annan)	0'83	340. Drummond	0'68
281. Braigh Horrisdale	0'82	341. Kennard	0'68
282. Ghuilbinn	0'82	342. Deoravat	0'68
283. na h-Achlaise	0'82	343. Clings	0'68
284. St John's	0'82	344. na h-Airidh Sléibhe	0'68
285. Awe (Inver)	0'82	345. Dornal	0'68
286. Giorra	0'82	346. Bogton	0'66
287. an Tuirc	0'81	347. Portmore	0'66
288. Linlithgow	0'80	348. an Eilein (Gairloch)	0'66

TABLE I—*continued*

Loch.	Length. Miles.	Loch.	Length. Miles.
349. a' Bhealaich (Alsh)	0·66	409. Whinyeon	0·56
350. Stormont	0·66	410. a' Chonnachair	0·56
351. Morsgail	0·66	411. an Nostarie	0·56
352. Dibadale	0·66	412. Whitefield	0·56
353. an t-Slagain	0·65	413. na Ceithir Eileana	0·56
354. Ordie	0·64	414. Sròn Smeur	0·56
355. Gleann a' Bhearraidh	0·64	415. Gown (South)	0·55
356. Grass	0·64	416. Moraig	0·55
357. Raonasgail	0·64	417. Monzievaird	0·55
358. Sealbhag	0·64	418. Coire nam Meann	0·54
359. Bosquoy	0·64	419. Kilconquhar	0·54
360. Valtos	0·64	420. na Stainge	0·54
361. Beannach (Gruinard)	0·63	421. a' Mhiotailt	0·54
362. Arthur	0·63	422. Bruadale	0·54
363. Edgelaw	0·62	423. Asta	0·53
364. Bad a' Chrotha	0·62	424. Uanagan	0·52
365. Roer	0·62	425. Burga	0·52
366. Craggie	0·62	426. Allan	0·52
367. na Deighe fo Dheas	0·62	427. an Losgairn Mòr	0·52
368. Allt na h-Airbhe	0·62	428. Kemp	0·52
369. Doire nam Mart	0·62	429. Monk Myre	0·52
370. an Laghair	0·62	430. nan Drumnèan	0·52
371. Dochart	0·62	431. Lochinvar	0·52
372. Fiart	0·62	432. Flugarth	0·52
373. an Tachdaidh	0·62	433. a' Buaille	0·52
374. Clunie (Tay)	0·62	434. na Coinnich	0·51
375. Urr	0·62	435. an Leòid	0·50
376. Dochard	0·62	436. an t-Seasgain	0·50
377. Scaslavat	0·62	437. Aithness	0·50
378. a' Chlachain (Lewis)	0·62	438. Balgavies	0·50
379. Black (Etive) (East)	0·62	439. Burntisland	0·50
380. nam Faoleag	0·62	440. Harperleas	0·50
381. Leitr Easaich	0·61	441. Eldrig	0·50
382. a' Choire	0·61	442. Littlester	0·50
383. Harelaw	0·60	443. Kilcheran	0·50
384. an Droighinn	0·60	444. na Doire Daraich	0·50
385. Leodsay	0·60	445. Tarruinn an Eithir	0·50
386. Isbister	0·60	446. na Sreinge	0·50
387. Burrealand	0·60	447. Mhic' ille Riabhaich	0·49
388. Sabiston	0·60	448. Hosta	0·49
389. Snarravoe	0·60	449. Breaclauch	0·49
390. Ederline	0·60	450. Peerie	0·48
391. Airidh na Ceardaich	0·60	451. a' Chlachain (Nairn)	0·48
392. Dhomhnuill Bhig	0·60	452. nan Eun (Ness)	0·48
393. an Iasgaich	0·59	453. Monikie (South)	0·48
394. Lochaber	0·59	454. Punds	0·48
395. Derculich	0·59	455. na Craige	0·48
396. Bhradain	0·58	456. a' Ghlinne Dorcha	0·47
397. nan Gabhar	0·58	457. Moor Dam	0·47
398. Phitiùlais	0·58	458. Lundie (Clunie)	0·46
399. Craighlush	0·58	459. Shechernich	0·46
400. Butterstone	0·58	460. Liath	0·46
401. Veiragvat	0·58	461. Essan	0·46
402. Derclach	0·58	462. Fithie	0·46
403. Souleseat	0·58	463. a' Phearsain	0·46
404. Gown (North)	0·57	464. nan Eun (Tay)	0·45
405. Black (Etive) (West)	0·56	465. a' Vullan	0·45
406. Black (Etive) (Mid)	0·56	466. Rae	0·44
407. White of Myrton	0·56	467. Holl	0·44
408. Dhùgaill (Torridon)	0·56	468. an Duna	0·44

STATISTICAL TABLES

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TABLE I—continued

Loch.	Length. Miles.	Loch.	Length. Miles.
469. Brow	0·44	517. Brough	0·32
470. Lochnaw	0·44	518. Geal	0·32
471. Dallas	0·43	519. Kilchoan (Upper)	0·32
472. Mill	0·43	520. a' Chaoruinn	0·32
473. Dubh (Ailort)	0·43	521. Sior	0·32
474. Muck	0·42	522. na Garbh-Abhuinn Ard	0·32
475. Clickhimin	0·42	523. Kinghorn	0·31
476. Harrow	0·42	524. a' Chladhaich	0·31
477. Kirk	0·42	525. nan Losganan	0·30
478. Monikie (North)	0·42	526. Hightae Mill	0·30
479. Gamhna	0·42	527. Dubh-Mòr	0·30
480. Lochenbreck	0·42	528. Beag	0·30
481. na h-Ealaidh	0·42	529. Sand	0·29
482. na Claise Fèarna	0·42	530. Duartmore	0·29
483. nan Geireann	0·41	531. Clubbi Shuns	0·29
484. Lure	0·40	532. Hostigates	0·28
485. Sandy	0·40	533. Scoly	0·28
486. nan Garbh Chlachain	0·40	534. nan Rath	0·28
487. Bhac	0·38	535. Black (Tay)	0·28
488. Brouster	0·38	536. Drumlamford	0·28
489. Fleet	0·38	537. nan Aitscot	0·27
490. Hoglinns	0·38	538. na Creige Léithe	0·27
491. Collaster	0·38	539. Cults	0·26
492. na Beiste	0·37	540. Skae	0·26
493. Màma	0·37	541. Cornish	0·26
494. Fyntalloch	0·37	542. Kirrieroch	0·26
495. Auchenchapel	0·37	543. Eion Mhic Alastair	0·25
496. Birka	0·36	544. na Beithe	0·25
497. Aboyne	0·36	545. an Dubh (Lochy)	0·24
498. na Garbh-Abhuinn	0·36	546. an Tairbeirt Stuahach	0·23
499. Hoil	0·36	547. Magillie	0·22
500. Blairs	0·36	548. Tùtach	0·22
501. Gainmheich (North)	0·36	549. Crann	0·22
502. a' Bhainne	0·36	550. Setter	0·22
503. Kilchoan (Lower)	0·36	551. Pitlyal	0·21
504. Tilt	0·35	552. na Gealaich	0·21
505. Anna	0·35	553. Choire na Cloich	0·20
506. Aslaich	0·35	554. Dubh (Forth)	0·20
507. Fingask	0·35	555. Loch on Eilean Subhainn (Maree)	0·18
508. Dubh (Etive)	0·35	556. Dubh (Ness)	0·18
509. Maol a' Choire	0·34	557. na h-Eaglais	0·16
510. Laide	0·34	558. Uaine	0·14
511. White (Tay)	0·34	559. St Margaret's	0·13
512. Duddingston	0·34	560. Dhu (Portsonachan)	0·12
513. Kinellan	0·33	561. Allt na Mult	0·12
514. Fender	0·33	562. Rainbow	0·10
515. Ree	0·32		
516. Buidhe (Tay)	0·32		

TABLE II

FRESH-WATER LOCHS OF SCOTLAND (SOUNDED BY THE LAKE SURVEY)
ARRANGED ACCORDING TO SUPERFICIAL AREA

Loch.	Area. Square Miles.	Loch.	Area. Square Miles.
1. Lomond	27.45	54. nan Cuiunne	1.15
2. Ness	21.78	55. Coir' an Fhearna	1.15
3. Awe (Etive)	14.85	56. Tulla	1.10
4. Maree	11.03	57. Clunie (Ness)	1.10
5. Morar	10.30	58. Ossian	1.03
6. Tay	10.19	59. Bad a' Ghail	1.02
7. Shin	8.70	60. Menteith	1.02
8. Shiel	7.56	61. Càrn	1.01
9. Rannoch	7.37	62. a' Chroisg	1.00
10. Ericht	7.21	63. Stack	0.99
11. Arkaig	6.24	64. St Mary's	0.99
12. Lochy	5.91	65. Baddanloch	0.99
13. Leven	5.30	66. Tummel	0.98
14. Katrine	4.78	67. Lubnaig	0.96
15. Earn	3.91	68. Ard	0.94
16. Harray	3.78	69. Swannay	0.94
17. Fannich	3.60	70. Suainaval	0.94
18. Fionn (Gruinard)	3.52	71. Veyatie	0.93
19. Langavat (Lewis)	3.45	72. Morie	0.92
20. Assynt	3.10	73. Bà (Tay)	0.92
21. Laggan	2.97	74. Boardhouse	0.89
22. Quoich	2.86	75. Brora	0.88
23. Laoghal	2.55	76. Voil	0.88
24. Stenness	2.46	77. na Meide	0.87
25. Treig	2.41	78. Muick	0.85
26. Hope	2.35	79. Lochindorb	0.84
27. Naver	2.26	80. an Ruathair	0.82
28. Skinaskink	2.09	81. Affric	0.82
29. Doon	2.04	82. Beinn a' Mheadhoin	0.79
30. Dùn na Seilcheig	1.95	83. Urigill	0.78
31. Glass	1.86	84. Oich	0.76
32. Laidon	1.80	85. an Dithreibh	0.74
33. Luichart	1.76	86. Fada (N. Uist)	0.70
34. Garry (Ness)	1.75	87. Merkland	0.69
35. Eck	1.70	88. nan Geireann (Mill)	0.68
36. Frisa	1.69	89. Expansions of River Dee	0.67
37. Mhor	1.69	90. a' Bhraoin	0.66
38. Vennachar	1.61	91. Arienas	0.66
39. More (Laxford)	1.46	92. Eilt	0.66
40. Watten	1.45	93. Owskeich	0.65
41. Fada (Ewe)	1.44	94. Lintathen	0.62
42. na Sheallag	1.37	95. Garry (Tay)	0.61
43. Ken	1.36	96. Trealaval	0.61
44. Damh (Torridon)	1.33	97. Grunavat	0.60
45. Calder	1.32	98. Gladhouse	0.59
46. Lurgain	1.26	99. Garve	0.59
47. Bà (Mull)	1.21	100. Fiodhaig	0.58
48. Avich	1.21	101. Caravat	0.58
49. Scadavay (West)	1.20	102. Ruthven	0.57
50. Mullardoch	1.18	103. Beoraid	0.55
51. Monar	1.17	104. Leum a' Chlamhain	0.55
52. Obisary	1.17	105. na h-Oidheche	0.54
53. a' Chlàir (Helmsdale)	1.17	106. Freuchie	0.54

STATISTICAL TABLES

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TABLE II—*continued*

Loch.	Area. Square Miles.	Loch.	Area. Square Miles.
107. Achall	0·52	166. Heilen	0·30
108. nan Eum (N. Uist)	0·52	167. Skebacleit	0·30
109. Ashie	0·52	168. na h-Achlaise	0·29
110. Thom	0·52	169. Kinord	0·29
111. Strom	0·52	170. a' Bhaillidh	0·29
112. a' Bhaid-Luachraich	0·51	171. Hunder	0·29
113. Nell	0·50	172. Truid air Sgithiche	0·29
114. Fadagoa	0·48	173. Moy	0·29
115. Talla	0·47	174. Gorm Loch Mòr	0·29
116. Morlich	0·47	175. More (Thurso)	0·28
117. Scadavay (East)	0·46	176. Fad	0·28
118. Creagach	0·46	177. Knockie	0·28
119. Skene (Dee)	0·46	178. Drumellie	0·27
120. Grennoch	0·45	179. Pattack	0·27
121. Insh	0·44	180. an Daimh (Shin)	0·27
122. a' Bhealaich (Gairloch)	0·44	181. Maberry	0·27
123. Dhùghaill (Carron)	0·44	182. Benisval	0·27
124. Chon (Forth)	0·43	183. Clubbi Shuns	0·27
125. Loyne (East)	0·43	184. a' Bhealaich (Naver)	0·27
126. Hundland	0·43	185. Turret	0·26
127. Beannachan	0·42	186. Calavie	0·26
128. na h-Earba (West)	0·41	187. Woodhall	0·26
129. Migdale	0·41	188. an Staca	0·26
130. a' Ghriama	0·40	189. Tollie	0·26
131. Cliff	0·40	190. Benachally	0·25
132. Dee	0·40	191. Cròcach	0·25
133. an t-Seilich	0·39	192. Achanalt	0·25
134. Kilbirnie	0·39	193. Bunacharan	0·25
135. Ailsh	0·38	194. Rescobie	0·25
136. Eilde Mòr	0·38	195. Skaill	0·24
137. na Sàlach Uidhre	0·38	196. Clair (Ewe)	0·24
138. Lyon	0·37	197. na Beinne Bàine	0·24
139. More Barvas	0·37	198. Milton	0·24
140. Castle (Bladenoch)	0·36	199. Ochiltree	0·24
141. Shurrery	0·36	200. an Stromore	0·24
142. Mochrum	0·36	201. Loyne (West)	0·24
143. Harperrig	0·35	202. Fada (Gruinard)	0·23
144. Scamadale	0·35	203. Davan	0·23
145. Girlsta	0·35	204. Ghuilbinn	0·23
146. Kirbister	0·35	205. na h-Earba (East)	0·23
147. Lowes (Tay)	0·34	206. Garbhaig	0·23
148. Lungard	0·34	207. Gelly	0·23
149. Hempriggs	0·34	208. Achilty	0·23
150. Spiggie	0·34	209. White (Ryan)	0·23
151. Arklet	0·33	210. Black (Ryan)	0·23
152. Fionn (Kirkraig)	0·33	211. Tankerness	0·23
153. Eye	0·33	212. Inbhir	0·23
154. Allt an Fhèarna	0·33	213. Tralaig	0·23
155. Urrahag	0·33	214. Trool	0·23
156. Castle Semple	0·32	215. Alvie	0·22
157. Achray	0·32	216. Olavat	0·22
158. Dubh (Gruinard)	0·32	217. Drunkie	0·22
159. Meiklie	0·31	218. Gartmorn	0·22
160. Kernsary	0·31	219. Sgamhain	0·22
161. Ussie	0·31	220. Fitty	0·22
162. Scarmclate	0·30	221. Finlas	0·22
163. Castle (Annan)	0·30	222. Dilate	0·22
164. St John's	0·30	223. nam Breac	0·22
165. Threipmuir	0·30	224. Nant	0·22

TABLE II—*continued*

Loch.	Area. Square Miles.	Loch.	Area. Square Miles.
225. Bad an Sgalaig	0·22	284. a' Ghobhainn	0·15
226. Eela	0·22	285. an Tomain	0·15
227. Doine	0·21	286. Dubh (Gairloch)	0·15
228. Kindar	0·21	287. na Moracha	0·15
229. Iubhair	0·21	288. an Drainc	0·15
230. Huna	0·21	289. Chaluim	0·15
231. Gainmheich (South)	0·21	290. Roer	0·15
232. Tariff	0·21	291. Lowes (Tweed)	0·15
233. Clunie (Tay)	0·21	292. Giorra	0·14
234. Strandavat	0·21	293. Peppermill	0·14
235. Vaara	0·21	294. Drummond	0·14
236. Buidhe (Fleet)	0·21	295. Oban nam Fiadh	0·14
237. Killin	0·20	296. an Nostarie	0·14
238. Lochrutton	0·20	297. an Tachdaidh	0·14
239. an Eilein (Spey)	0·20	298. an Eilein (Gairloch)	0·14
240. Skealtar	0·20	299. Braigh Horrisdale	0·14
241. na Craobhaig	0·20	300. na Moine	0·14
242. Muckle Water	0·19	301. Pouлары	0·14
243. Coire nam Meann	0·19	302. Dungeon	0·14
244. Langavat (Benbecula)	0·19	303. Clings	0·14
245. an Dhin (N. Uist)	0·19	304. Bodavat	0·14
246. Skerrow	0·19	305. Stacsavat	0·14
247. a' Bharpa	0·19	306. Broom	0·13
248. Araich-Lin	0·18	307. Bradan	0·13
249. na Cuaich	0·18	308. Isbister	0·13
250. Ordie	0·18	309. Loch	0·13
251. Gryfe	0·18	310. Heouravay	0·13
252. Coulin (Ewe)	0·18	311. Awe (Inver)	0·13
253. a' Chuilinn (Conon)	0·18	312. Auchenreoch	0·13
254. Droma	0·18	313. Allt na h-Airbhe	0·13
255. Boralan	0·18	314. Crogavat	0·13
256. Martnaham	0·18	315. a' Choire	0·13
257. Beannach (Inver)	0·18	316. ic Colla	0·13
258. Daimh (Tay)	0·17	317. an Laghair	0·13
259. Teàrnait	0·17	318. a' Bhuird	0·13
260. Wester	0·17	319. Dochard	0·13
261. an Gead	0·17	320. na Leitreach	0·13
262. Syre	0·17	321. Crò Criosdaig	0·13
263. Clousta	0·17	322. Kennard	0·12
264. Butterstone	0·17	323. Burga	0·12
265. Sguod	0·17	324. Caol na Doire	0·12
266. a' Bhaid Daraich	0·17	325. Builg	0·12
267. Lindores	0·17	326. Stormont	0·12
268. Lundie (Garry)	0·17	327. Arthur	0·12
269. Dornal	0·17	328. an t-Slagain	0·12
270. Urr	0·17	329. a' Bhealaich (Alsh)	0·12
271. Tingwall	0·17	330. Beannach (Gruinard)	0·12
272. Derculich	0·16	331. Sabiston	0·12
273. an Duin (Spey)	0·16	332. Druim Suardalain	0·12
274. Long	0·16	333. Deoravat	0·12
275. Forfar	0·16	334. Monikie (South)	0·12
276. Linlithgow	0·16	335. Craiglush	0·11
277. Portmore	0·16	336. Doire nam Mart	0·11
278. Whinyeon	0·16	337. Crunachan	0·11
279. Carlingwark	0·16	338. Callater	0·11
280. a' Mhuilinn	0·16	339. Sealbhag	0·11
281. nam Faoleag	0·16	340. Skeen (Annan)	0·11
282. Skiach	0·15	341. an Duna	0·11
283. Kilconquhar	0·15	342. na h-Airidh Sléibhe	0·11

STATISTICAL TABLES

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TABLE II—continued

Loch.	Area. Square Miles.	Loch.	Area. Square Miles.
343. Ederline	0·11	402. Veiragvat	0·08
344. an Lagain	0·11	403. Burraland	0·08
345. Lochinvar	0·11	404. Valtos	0·08
346. Kemp	0·11	405. an Droighinn	0·08
347. Soulseat	0·11	406. Rosebery	0·08
348. an Leòid	0·11	407. Balgavies	0·08
349. Raoinavat	0·11	408. Clickhimin	0·07
350. Bosquoy	0·10	409. Dochart	0·07
351. Con (Tay)	0·10	410. Holl	0·07
352. Hosta	0·10	411. Breaclauch	0·07
353. na h-Ealaidh	0·10	412. Burntisland	0·07
354. na Ceithir Eileana	0·10	413. na Lairige	0·07
355. Morsgail	0·10	414. Oban a' Chlachain	0·07
356. Liath	0·10	415. Shechernich	0·07
357. an Laig Aird	0·10	416. na Doire Daraich	0·07
358. Phitiùlais	0·10	417. Sandy	0·07
359. Raonasgail	0·10	418. nan Gabhar	0·07
360. Littlester	0·10	419. Bad a' Chrotha	0·07
361. Bruadale	0·10	420. a' Chlachain (Lewis)	0·07
362. Vatandip	0·10	421. Craggie	0·07
363. Lunn dà-Bhrà	0·10	422. Whitefield	0·07
364. a' Phearsain	0·10	423. Eldrig	0·07
365. Sloy	0·10	424. Monikie (North)	0·07
366. Cuil Airidh a' Flod	0·10	425. Gown (North)	0·07
367. nan Lann	0·10	426. Lochnaw	0·07
368. Eigheach	0·09	427. Dibadale	0·07
369. Spynie	0·09	428. Fleet	0·07
370. Ghuiragarstidh	0·09	429. Airidh na Lic	0·07
371. nam Breac Dearga	0·09	430. Brow	0·07
372. na Mòine Buige	0·09	431. Dhomhnuill Bhig	0·07
373. Cuil na Sìthe	0·09	432. Howie	0·07
374. a' Chlachain (Nairn)	0·09	433. Hoglinns	0·06
375. Gown (South)	0·09	434. Auchenchapel	0·06
376. Bogton	0·09	435. Dallas	0·06
377. na Streinge	0·09	436. Monzievaird	0·06
378. Punds	0·09	437. Aboyne	0·06
379. North-house	0·09	438. Hoil	0·06
380. Kirk Dam	0·09	439. Harperleas	0·06
381. nan Deaspoirt	0·09	440. Moraig	0·06
382. Muckle Lunga	0·09	441. Fingask	0·06
383. Aithness	0·09	442. an Iasgaich	0·06
384. na Déighe fo Dheas	0·08	443. nan Eun (Tay)	0·06
385. Sròn Smeur	0·08	444. Tarruinn an Eithir	0·06
386. Hermidale	0·08	445. na Creige Duibhe	0·06
387. na Stainge	0·08	446. a' Chonnachair	0·06
388. a' Bhradain	0·08	447. Mhic' ille Riabhaich	0·06
389. Moor Dam	0·08	448. Laide	0·06
390. Leitir Easaich	0·08	449. Dhùgaill (Torridon)	0·06
391. Lochaber	0·08	450. Flugarth	0·06
392. a' Mhiotailt	0·08	451. Black (Etive) (East)	0·06
393. an Tuirc	0·08	452. Harrow	0·06
394. a' Ghlinne Dorcha	0·08	453. Derclach	0·06
395. Seil	0·08	454. Crombie Den	0·06
396. White of Myrton	0·08	455. Peerie	0·06
397. Ceò-Glas	0·08	456. Airidh na Ceardaich	0·06
398. Leodsay	0·08	457. Gainmheich (North)	0·06
399. Scaslavay	0·08	458. na Bl	0·06
400. Tormasad	0·08	459. nan Druimnean	0·06
401. Snarravoe	0·08	460. Lochenbreck	0·06

TABLE II—*continued*

Loch.	Area. Square Miles.	Loch.	Area. Square Miles.
461. Black (Etive) (Mid)	0·05	512. Tilt	0·03
462. " " (West)	0·05	513. Allan	0·03
463. Buidhe (Tay)	0·05	514. Maol a' Choire	0·03
464. Kinghorn	0·05	515. Tùtach	0·03
465. Essan	0·05	516. Màma	0·03
466. Kirk	0·05	517. Kirriereoch	0·03
467. Bhac	0·05	518. Brough	0·03
468. Mill	0·05	519. Kilchoan (Lower)	0·03
469. Rae	0·05	520. a' Chaoruinn	0·03
470. nan Garbh Chlachain	0·05	521. Hightae Mill	0·03
471. Dubh (Ailort)	0·05	522. Fithie	0·03
472. na Coimnich	0·05	523. Sior	0·03
473. Eileach Mhic' ille Riabhaich	0·05	524. na Beithe	0·03
474. na Garbh-Abhuinn	0·05	525. a' Buaille	0·03
475. na Claise Fèarna	0·05	526. Cults	0·03
476. Baile a' Ghobhainn	0·05	527. na Garbh-Abhuinn Ard	0·03
477. Asta	0·05	528. Skae	0·03
478. a' Bhainne	0·05	529. Aslaich	0·03
479. Harelaw	0·05	530. Dubh (Etive)	0·03
480. Birka	0·05	531. Hostigates	0·03
481. nan Eun (Ness)	0·05	532. Duddingston	0·03
482. an Losgainn Mòr	0·05	533. Pitlyal	0·02
483. Dubh-Mor	0·05	534. Sand	0·02
484. Gleann a' Bhearraidh	0·05	535. White (Tay)	0·02
485. Fiart	0·05	536. an t-Seasgain	0·02
486. Edgelaw	0·05	537. Dubh (Forth)	0·02
487. Grass	0·05	538. a' Chladaich	0·02
488. Lure	0·05	539. Scoly	0·02
489. na Craige	0·04	540. Crann	0·02
490. Blairs	0·04	541. Duartmore	0·02
491. Fender	0·04	542. Kinellan	0·02
492. Anna	0·04	543. na Gealzich	0·02
493. Monk Myre	0·04	544. Cornish	0·02
494. Eion Mhic Alastair	0·04	545. nan Ràth	0·02
495. na Beiste	0·04	546. Setter	0·02
496. nan Geireann	0·04	547. Magillie	0·02
497. Beag	0·04	548. na h' Eaglais	0·02
498. Kilcheran	0·04	549. Black (Tay)	0·01
499. Lundie (Clunie)	0·04	550. nan Aiscot	0·01
500. a' Vullan	0·04	551. Uaine	0·01
501. Gambna	0·04	552. an Tairbeirt Stuadaich	0·01
502. Uanagan	0·04	553. Loch on Eilean Subhainn	0·01
503. Collaster	0·04	554. na Creige Léithe	0·01
504. Drumlamford	0·04	555. an Dubh (Lochy)	0·01
505. Fyntalloch	0·04	556. Rainbow	0·01
506. Kilchoan (Upper)	0·04	557. Dubh (Ness)	0·01
507. Ree	0·04	558. Choire na Cloich	0·01
508. Muck	0·04	559. nan Losganan	0·01
509. Geal	0·04	560. St Margaret's	0·01
510. Browster	0·04	561. Dhu (Portsonachan)	0·003
511. Bran	0·04	562. Allt na Mult	0·003

TABLE III

FRESH-WATER LOCHS OF SCOTLAND (SOUNDED BY THE LAKE SURVEY)
ARRANGED ACCORDING TO MAXIMUM DEPTH

Loch.	Max. Depth. Feet.	Loch.	Max. Depth. Feet.
1. Morar	1017	54. Scamadale	145
2. Ness	754	55. Fionn (Gruinard)	144
3. Lomond	623	56. Bà (Mull)	144
4. Lochy	531	57. a' Bhaid-Luachraich	143
5. Ericht	512	58. Eck	139
6. Tay	508	59. Ossian	132
7. Katrine	495	60. Lungard	129
8. Rannoch	440	61. Tummel	128
9. Treig	436	62. Laidon	128
10. Shiel	420	63. Veyatie	126
11. Maree	367	64. Clunie (Ness)	123
12. Glass	365	65. Càrn	122
13. Arkaig	359	66. na h-Oidhche	121
14. More (Laxford).	316	67. a' Bhaid Daraich	121
15. Awe (Etive)	307	68. Gainmheich (South)	120
16. Earn	287	69. Eilt	119
17. Assynt	282	70. Achilty	119
18. Fannich	282	71. Tralaig	117
19. Quoich	281	72. Arienas	116
20. Morie	270	73. Nell	115
21. Monar	260	74. Dubh-Mòr	114
22. Muick	256	75. na h-Airidh Sléibhe	113
23. Fada (Ewe)	248	76. Garry (Tay)	113
24. Affric	221	77. Bunacharan	113
25. Suainaval	219	78. Vennachar	111
26. na Sheallag	217	79. nan Lann	109
27. Laoghal	217	80. Dhùgaill (Torridon)	108
28. Skinaskink	216	81. Stack	108
29. Garry (Ness)	213	82. Naver	108
30. Damh (Torridon)	206	83. Ard	107
31. Dùn na Seilcheig	205	84. Garve	105
32. Frisa	205	85. an Duin (Spey)	102
33. Mullardoch	197	86. Lyon	100
34. Avich	188	87. an Laghair	100
35. Hope	187	88. Eilde Mòr	100
36. Bad a' Ghaill	180	89. Doon	100
37. Dhùghaill (Carron)	179	90. Insh	100
38. Beannachan	176	91. Voil	98
39. Laggan	174	92. Langavat (Lewis)	98
40. a' Chroisg	168	93. an t-Seilich	98
41. Beinn a' Mheadhoin	167	94. Achray	97
42. Luichart	164	95. Drunkie	97
43. Shin	162	96. Daimh (Tay)	95
44. Beoraid	159	97. Benisval	95
45. an Dithreibh	157	98. Raonasgail	95
46. Lurgain	156	99. Dungeon	94
47. Oich	154	100. a' Mhuilinn	94
48. Dubh (Ailort)	153	101. Garbhaig	93
49. St Mary's	153	102. na Creige Duibhe	93
50. Owskeich	153	103. Clair (Ewe)	93
51. Coir' an Fhearna	151	104. Kernsary	93
52. Obisary	151	105. Nant	92
53. Lubnaig	146	106. a' Bhealaich (Gairloch)	92

TABLE III—*continued*

Loch.	Max. Depth. Feet.	Loch.	Max. Depth. Feet.
107. Gorm Loch Mòr	91	166. an Eilein (Spey)	66
108. Seil	91	167. Brora	66
109. Mhor	91	168. Doine	65
110. Fionn (Kirkaig)	90	169. Iubhair	65
111. Grunavat	90	170. Benachally	64
112. Tarff	89	171. Bad an Sgalaig	64
113. Dubh (Gruinard)	88	172. a' Ghriama	64
114. na Leitreach	88	173. Loch an Eilean Subhainn	64
115. Baile a' Ghobhainn	88	174. na Meide	63
116. Tollie	86	175. Ken	62
117. Builg	86	176. Freuchie	62
118. Calder	85	177. an Tachdaidh	62
119. na Cuaich	85	178. Raoinat	61
120. Merkland	85	179. Dibadale	61
121. a' Ghlinne Dorcha	85	180. Tingwall	60
122. Creagach	84	181. Hunder	60
123. Tulla	84	182. a' Choire	60
124. Calavie	84	183. na Moine Buige	60
125. Leven	83	184. Kilcheran	60
126. Scaslavat	82	185. Allt na h-Airbhe	60
127. na h-Earba (West)	81	186. Gainmheich (North)	59
128. Loch	81	187. nan Druimnean	59
129. a' Chlachain (Nairn)	80	188. Lowes (Tweed)	58
130. a' Bhealaich (Naver)	80	189. Lochrutton	58
131. Turret	79	190. Ederline	58
132. an Leòid	79	191. na Beithe	58
133. Fender	78	192. Fiart	58
134. Menteith	77	193. Drumellie	58
135. Edgelaw	77	194. Pattack	58
136. Chon (Forth)	75	195. Aithness	57
137. Knockie	75	196. Ashie	57
138. Eion Mhic Alastair	74	197. Hoglinns	57
139. Phitiùlais	74	198. an Losgainn Mòr	57
140. Girlsta	74	199. Clousta	57
141. Caravat	74	200. Fleet	56
142. a' Bhraoin	73	201. nan Deaspoirt	56
143. Talla	73	202. Sealbhag	56
144. Clings	73	203. Fada (Gruinard)	56
145. Sgamhain	72	204. Skiach	55
146. Kennard	72	205. Trool	55
147. Fiodhaig	71	206. an t-Slagain	55
148. Cròcach	71	207. Liath	55
149. nam Breac	71	208. Rosebery	55
150. Kilchoan (Upper)	70	209. Mill	55
151. Leitir Easaich	70	210. an Draine	55
152. Alvie	70	211. Caol na Doire	55
153. nam Breac Dearga	70	212. Dilate	55
154. Achall	70	213. Lochaber	55
155. Lintrathen	70	214. Crogavat	55
156. Derculich	70	215. Gladhouse	55
157. Clunie (Tay)	69	216. Eela	55
158. a' Mhìotailt	69	217. Lundie (Garry)	54
159. na h-Earba (East)	69	218. Harelaw	54
160. Ordie	69	219. Crombie Den	53
161. Grennoch	68	220. Lowes (Tay)	53
162. Dubh (Gairloch)	68	221. a' Phearsain	53
163. Arklet	67	222. Gown (South)	52
164. Killin	67	223. an Daimh (Shin)	52
165. na Beinne Bàine	67	224. Braigh Horrisdale	51

STATISTICAL TABLES

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TABLE III—*continued*

Loch.	Max. Depth. Feet.	Loch.	Max. Depth. Feet.
225. Kemp	51	284. Kindar	41
226. Leum a' Chlamhain	51	285. Gamhna	41
227. an Staca	51	286. Spiggie	41
228. Lochindorb	51	287. White of Myrton	40
229. Moy	50	288. Craggie	40
230. Bran	50	289. Finlas	40
231. Black (Ryan)	50	290. an Dubh (Lochy)	40
232. Inbhir	50	291. Stacsavat	40
233. Arthur	50	292. Urigill	40
234. na Craobhaig	50	293. Monzievaird	39
235. Scadavay (East)	50	294. na Lairige	39
236. nan Eun (Tay)	50	295. Fadagoa	39
237. Giorra	49	296. an Tuirc	39
238. Migdale	49	297. nan Aùscot	39
239. Woodhall	49	298. Howie	39
240. Ghulbinn	49	299. Burntisland	39
241. Morlich	49	300. Teàrnait	39
242. Coulin (Ewe)	49	301. na Claise Fèarna	38
243. Gleann a' Bhearraidh	48	302. White (Ryan)	38
244. Doire nam Mart	48	303. Fad	38
245. an Droighinn	48	304. Beannach (Inver)	38
246. Fingask	48	305. Holl	38
247. Poullary	47	306. Kinghorn	38
248. Bodavat	46	307. a' Bharpa	37
249. Hoil	46	308. Ghiuragarstidh	37
250. Birka	45	309. Scadavay (West)	37
251. Fada (N. Uist)	45	310. Dee	36
252. Meiklie	45	311. Allt an Fheàrna	36
253. Kilchoan (Lower)	45	312. Buidhe (Fleet)	36
254. Ree	44	313. Black (Etive) (East)	36
255. a' Bhealaich (Alsh)	44	314. Skeen (Annan)	36
256. Màma	44	315. a' Bhuird	36
257. Expansions of River Dee	44	316. Skae	35
258. Craiglush	44	317. Trealaval	35
259. an Tomain	44	318. an Dùin (N. Uist)	35
260. Skebacleit	44	319. na Beiste	35
261. Uanagan	43	320. Loyne (East)	35
262. na Sreinge	43	321. USSie	35
263. a' Chuilinn (Conon)	43	322. an Nostarie	35
264. na h-Eaglais	43	323. Langavat (Benbecula)	34
265. Dochard	42	324. Gryfe	34
266. Ruthven	42	325. an Eilein (Gairloch)	34
267. Urr	42	326. Ochiltree	34
268. Skealtar	42	327. Auchenreoch	34
269. Thom	42	328. na Déighe fo Dheas	34
270. Baddanloch	42	329. ie Colla	34
271. an Laig Aird	42	330. Coire nam Meann	33
272. Soulseat	42	331. Sròn Smeur	33
273. Bhac	42	332. Eileach Mhic' ille Riabhaich	33
274. na Ceithir Eileana	42	333. Skerrow	33
275. Long	42	334. Whinyeon	33
276. Breaclauch	41	335. Urrahag	33
277. Harperleas	41	336. Roer	32
278. Portmore	41	337. White (Tay)	32
279. Bhradain	41	338. a' Chlàir (Helmsdale)	32
280. Heouravay	41	339. Deoravat	32
281. Dubh (Forth)	41	340. Ceò-Glas	32
282. Hermidale	41	341. Hosta	31
283. Hostigates	41	342. Sloy	31

xxxii THE FRESH-WATER LOCHS OF SCOTLAND

TABLE III—*continued*

Loch.	Max. Depth. Feet.	Loch.	Max. Depth. Feet.
343. Druim Suardalain	31	402. Bad a' Chrotha	23
344. nan Eun (N. Uist)	31	403. a' Buaille	23
345. Morsgail	31	404. Muck	23
346. Balgavies	31	405. Airidh na Ceardaich	22
347. Burga	30	406. an Stromore	22
348. Chalum	30	407. Monikie (North)	22
349. an Gead	30	408. Duartmore	22
350. Bà (Tay)	30	409. nam Faioileag	22
351. Callater	30	410. Black (Etive) (West)	22
352. Harperrig	30	411. Crò Crìosdaig	21
353. Punds	30	412. nan Eun (Ness)	21
354. Kilbirnie	30	413. Borralan	21
355. Forfar	29	414. Cliff	21
356. Harrow	29	415. Gartmorn	21
357. Martnaham	29	416. a' Chaoruinn	20
358. Allan	29	417. Leodsay	20
359. an Dùn	29	418. na Moracha	20
360. Snarravoe	29	419. Choire na Cloich	20
361. na Sàlach Uidhre	29	420. na Garbh-Abhuinn	20
362. Beag	29	421. a' Bhaillidh	20
363. Cults	28	422. Muckle Water	20
364. a' Bhainne	28	423. Airidh na Lie	19
365. na h-Achlaise	28	424. Pitlyal	19
366. Eigheach	28	425. Oban a' Chlachain	19
367. nan Cuinne	28	426. Loyne (West)	19
368. Clubbi Shuns	28	427. Essan	18
369. a' Ghobhainn	28	428. Dubh (Ness)	18
370. Black (Etive) (Mid)	27	429. an Lagain	18
371. Valtos	27	430. nan Geireann (Mill)	18
372. nan Geireann	27	431. an t-Seasgain	18
373. Beannach (Gruinard)	27	432. Castle (Annan)	18
374. a' Chonnachair	27	433. Carlingwark	17
375. nan Ràth	27	434. Peppermill	17
376. Anna	27	435. Gown (North)	17
377. a' Vullan	27	436. Stenness	17
378. Linlithgow	27	437. Auchenchapel	17
379. Muckle Lunga	27	438. Crann	17
380. an Ruathair	26	439. Threipmuir	17
381. Aslaich	26	440. Vatandip	17
382. Rainbow	26	441. Swannay	16
383. Monikie (South)	26	442. Rae	16
384. Drumlamford	26	443. Fitty	16
385. na Gealaich	25	444. Droma	16
386. na Coinnich	25	445. Tùtach	16
387. Lùnn dà-Bhrà	25	446. Kinellan	16
388. nan Garbh Chlachain	25	447. an Iasgaich	16
389. Vaara	25	448. Fithie	16
390. Veiragvat	25	449. Lochenbreck	15
391. Kirk	25	450. Milton	15
392. Huna	25	451. Fyntalloch	15
393. Crunachan	25	452. Kirioreoch	15
394. Butterstone	25	453. Moraig	14
395. Lundie (Clunie)	25	454. Whitefield	14
396. Strandavat	25	455. Sguod	14
397. Ailsh	24	456. Cùl na Sìthe	14
398. an Tairbeirt Stuaighaich	24	457. Harray	14
399. Taruinn an Eithir	23	458. Maberry	14
400. Rescobie	23	459. na Stainge	14
401. Geal	23	460. Magillie	14

TABLE III—continued

Loch.	Max. Depth. Feet.	Loch.	Max. Depth. Feet.
461. na Creige Léithe	14	512. Hempriggs	8
462. na Craige	13	513. Dallas	8
463. Hightae Mill	13	514. na h-Ealaidh	8
464. Asta	13	515. na Moine	8
465. North-house	13	516. Flugarth	8
466. Mochrum	13	517. Black (Tay)	7
467. Strom	13	518. More (Thurso)	7
468. Watten	12	519. Dhomhnuill Bhig	7
469. Truid air Sgithiche	12	520. Cornish	7
470. Olavat	12	521. Eye	7
471. Mhic' ille Riabhach	12	522. Hundland	7
472. Syre	12	523. Shurrery	7
473. Derclach	12	524. nan Losganan	7
474. Kinord	12	525. Araich-Lin	7
475. Monk Myre	12	526. St John's	7
476. Scoly	12	527. Sandy	7
477. Drummond	12	528. Awe (Inver)	7
478. Castle (Bladenoch)	11	529. na Garbh-Abhuinn Ard	7
479. a' Chlachain (Lewis)	11	530. Tankerness	7
480. Brouster	11	531. Lure	7
481. Dochart	11	532. na Bi	6
482. Aboyne	11	533. Moor Dam	6
483. Dornal	10	534. Kilconquhar	6
484. Uaine	10	535. Grass	6
485. Oban nam Fiadh	10	536. Skene (Dee)	6
486. Dhu (Portsonachan)	10	537. Spynie	6
487. Eldrig	10	538. Lochnaw	6
488. Lindores	10	539. Kirbister	6
489. Peerie	10	540. Bruadale	6
490. Dubh (Etive)	10	541. Brow	6
491. Burriland	10	542. Tilt	5
492. Duddingston	10	543. Blairs	5
493. Clickhimin	10	544. Scarmclate	5
494. Tormasad	10	545. Castle Semple	5
495. Lochinvar	10	546. Heilen	5
496. Collaster	10	547. Bosquoy	5
497. Broom	9	548. nan Gabhar	5
498. Boardhouse	9	549. St Margaret's	5
499. na Doire Daraich	9	550. Kirk Dam	5
500. Davan	9	551. Bogton	4
501. Littlester	9	552. Skaill	4
502. a' Chladaich	9	553. Sand	4
503. Con (Tay)	9	554. Brough	4
504. Cuil Airidh a' Flod	9	555. Sior	4
505. Laide	9	556. Stormont	3
506. Gelly	9	557. Allt na Mult	3
507. Achanalt	9	558. Sabiston	3
508. Shechernich	8	559. Wester	3
509. More Barvas	8	560. Isbister	3
510. Maol a' Choire	8	561. Buidhe (Tay)	3
511. Bradan	8	562. Setter	2

TABLE IV

FRESH-WATER LOCHS OF SCOTLAND (SOUNDED BY THE LAKE SURVEY)
ARRANGED ACCORDING TO MEAN DEPTH

Loch.	Mean Depth. Feet.	Loch.	Mean Depth. Feet.
1. Ness	433·02	53. a' Bhaid Daraich	55·60
2. Morar	284·00	54. na h-Oidheche	53·95
3. Lochy	228·95	55. Achilty	51·78
4. Treig	207·37	56. Shin	51·04
5. Katrine	199·19	57. Dubh-Mòr	50·93
6. Tay	199·08	58. Eck	50·16
7. Ericht	189·21	59. Bunacharan	50·11
8. Rannoch	167·46	60. Clunie (Ness)	49·98
9. Glass	159·07	61. Garry (Tay)	49·91
10. Arkaig	152·71	62. Tummel	48·03
11. Earn	137·83	63. Bà (Mull)	47·42
12. Shiel	132·73	64. Eilde Mòr	47·01
13. More (Laxford)	125·83	65. Owskeich	46·90
14. Maree	125·30	66. Lyon	44·87
15. Morie	125·20	67. na h-Airidh Sléibhe	44·43
16. Lomond	121·29	68. Ard	43·86
17. Muick	116·30	69. Garve	43·60
18. Fannich	108·76	70. Lubnaig	42·77
19. Suainaval	108·60	71. Ossian	42·75
20. Awe (Etive)	104·95	72. na Cuaich	42·48
21. Quoich	104·60	73. Vennachar	42·41
22. na Sheallag	103·47	74. Dubh (Gruinard)	42·33
23. Fada (Ewe)	102·20	75. Clair (Ewe)	42·10
24. Assynt	101·10	76. Gainmheich (South)	41·80
25. Avich	98·42	77. Oich	41·78
26. Monar	98·33	78. an t-Seilich	41·30
27. Aifric	93·64	79. Tralaig	41·03
28. Dùn na Seilcheig	84·00	80. Veyatie	41·00
29. Garry (Ness)	78·00	81. Voil	40·94
30. Mullardoch	77·52	82. na Leitreach	40·29
31. Frisa	76·40	83. Eion Mhic Alastair	39·73
32. a' Chroisg	73·78	84. Daimh (Tay)	39·12
33. St Mary's	72·93	85. Naver	39·06
34. Beoraid	72·34	86. Baile a' Ghobhainn	38·77
35. Beannachan	70·42	87. Dhùgaill (Torridon)	38·27
36. Scamadale	69·53	88. Kernsary	38·17
37. Laggan	67·68	89. Tulla	38·08
38. Luichart	66·84	90. Calavie	37·91
39. Dhùghaill (Carron)	66·65	91. Càrn	37·70
40. an Dithreibh	65·93	92. Insh	37·31
41. Beinn a' Mheadhoin	65·36	93. an Laghair	37·23
42. Laoghal	65·21	94. Eilt	37·12
43. Lungard	63·68	95. nan Lann	37·03
44. Dubh (Ailort)	62·70	96. Nell	36·80
45. Bad a' Ghaill	61·90	97. Seil	36·73
46. Hope	61·47	98. a' Bhraoin	36·60
47. Lurgain	60·90	99. Lowes (Tweed)	36·55
48. Skinaskink	60·40	100. Drunkie	36·05
49. Damh (Torridon)	58·91	101. Achray	36·01
50. Coir' an Fhearna	58·79	102. Stack	35·91
51. Fionn (Gruinard)	57·79	103. an Leòid	35·75
52. Arianas	56·60	104. na h-Earba (West)	35·62

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TABLE IV—continued

Loch.	Mean Depth. Feet.	Loch.	Mean Depth. Feet.
105. Garbhaig	35·41	163. Benachally	25·06
106. Laidon	35·19	164. Iubhair	24·96
107. Talla	34·70	165. Langavat (Lewis)	24·79
108. Benisval	34·68	166. Derculich	24·72
109. Scaslavat	34·65	167. Crogavat	24·66
110. a' Mhuilinn	34·15	168. na Mòine Buige	24·62
111. a' Bhaid-Luachraich	34·02	169. Gainmheich (North)	24·50
112. Creagach	33·17	170. nam Breac Dearga	24·43
113. Doine	33·13	171. Knockie	24·40
114. Tollie	33·13	172. Nant	24·31
115. a' Bhealach (Gairloch)	32·74	173. Gorm Loch Mòr	24·30
116. na Creige Duibhe	32·49	174. Arklet	24·19
117. Raonagail	32·37	175. Killin	24·15
118. Kennard	32·27	176. Mhor	24·11
119. Turret	31·79	177. Tarff	23·89
120. Fender	31·77	178. Dilate	23·50
121. Dubh (Gairloch)	31·74	179. Lintrathen	23·42
122. Girsta	31·41	180. Black (Ryan)	23·37
123. a' Bhealach (Naver)	31·20	181. Ederline	23·15
124. na h-Earba (East)	31·11	182. Phitùlais	23·15
125. Edgelaw	31·10	183. Fiart	23·13
126. an Duin (Spey)	30·38	184. Caol na Doire	23·04
127. a' Mhiotailt	30·30	185. na h-Eaglais	22·84
128. Allt na h-Airbhe	30·17	186. Fingask	22·83
129. Merkland	30·14	187. Freuchie	22·83
130. a' Chlachain (Nairn)	29·84	188. Harelaw	22·83
131. Loch on Eilean Subhainn	29·70	189. Brora	22·68
132. Kilchoan (Upper)	29·54	190. Dungeon	22·64
133. Chon (Forth)	29·38	191. Liath	22·36
134. Loch	29·22	192. Meiklie	22·10
135. Drumellie	29·18	193. Fleet	21·81
136. Clunie (Tay)	29·12	194. Giorra	21·70
137. Grunavat	28·36	195. nan Eun (Tay)	21·64
138. na Beinne Bàine	28·33	196. Doire nam Mart	21·33
139. a' Ghriama	28·03	197. Ashie	21·26
140. nam Breac	27·94	198. Miglale	21·18
141. Achall	27·83	199. Kilcheran	21·11
142. Dibadale	27·77	200. Ken	21·00
143. Builg	27·75	201. Calder	20·87
144. na Beithe	27·72	202. nan Deaspoirt	20·82
145. a' Ghlinne Dorcha	27·65	203. Grennoch	20·82
146. a' Choire	27·55	204. Dubh (Forth)	20·70
147. an Daimh (Shin)	27·17	205. Sealbhag	20·66
148. Alvie	27·02	206. na Meide	20·61
149. Sgamhain	26·77	207. Lochaber	20·57
150. Doon	26·71	208. Raoinavat	20·56
151. Clings	26·55	209. Fionn	20·40
152. Ordie	26·32	210. Lowes (Tay)	20·40
153. Kemp	26·23	211. Kilochoan (Lower)	20·30
154. Hoglinns	26·09	212. Leitir Easaich	19·90
155. an Draine	25·86	213. Menteith	19·77
156. Fiodhaig	25·79	214. Woodhall	19·67
157. Arthur	25·77	215. Leum a' Chlamhain	19·54
158. Obisary	25·70	216. a' Phearsain	19·44
159. an Eilein (Spey)	25·47	217. Moy	19·31
160. Mill	25·33	218. Thom	19·25
161. Bad an Sgalaig	25·26	219. Hoil	19·09
162. Rosebery	25·20	220. Tingwall	18·88

TABLE IV—*continued*

Loch.	Mean Depth. Feet.	Loch.	Mean Depth. Feet.
221. Aithness	18'84	279. Eileach Mhìo' ille Riabhach	14'13
222. an Losgairn Mòr	18'65	280. Breaclauch	14'09
223. Trool	18'39	281. White (Ryan)	14'09
224. Coulin (Ewe)	18'29	282. Pattack	14'07
225. Braigh Horrisdale	18'10	283. Expansions of River Dee	13'90
226. Skiach	18'09	284. na Ceithir Eileana	13'81
227. Hunder	18'08	285. White of Myrton	13'70
228. Harperleas	17'88	286. a' Chlàir (Helmsdale)	13'65
229. an Tachdaidh	17'88	287. Monikie (South)	13'47
230. Skeen (Annan)	17'87	288. Vaara	13'44
231. Crombie Den	17'64	289. Black (Etive) (East)	13'39
232. na Spreinge	17'53	290. an Ruathair	13'34
233. Stacsavat	17'43	291. Ghuilbinn	13'32
234. Gryfe	17'35	292. na Claise Fèarna	13'23
235. Baddanloch	17'33	293. Beannach (Inver)	13'20
236. Fada (Gruinard)	17'15	294. an Dùna	13'12
237. Fad	17'13	295. Urigill	13'10
238. Holl	17'04	296. Lochrutton	13'03
239. Cròcach	16'80	297. White (Tay)	12'95
240. Uanagan	16'80	298. Gleann a' Bhearraidh	12'79
241. nan Àiscot	16'79	299. Anna	12'74
242. Portmore	16'79	300. Burga	12'65
243. na Craobhaig	16'63	301. Bran	12'63
244. Eela	16'59	302. Skerrow	12'63
245. Caravat	16'57	303. Bodavat	12'61
246. a' Bhealaich (Alsh)	16'53	304. a' Ghobhainn	12'59
247. Bhac	16'50	305. Monikie (North)	12'58
248. an Tomain	16'47	306. Snarravoe	12'55
249. Gladhouse	16'46	307. Hermidale	12'49
250. an t-Slagain	16'42	308. Hosta	12'47
251. Lundie (Garry)	16'28	309. a' Bharpa	12'43
252. Hostigates	16'26	310. Lochindorb	12'42
253. Teàrnait	16'16	311. nan Cuinne	12'38
254. Craiglush	16'13	312. Morsgail	12'33
255. Skealtar	15'90	313. a' Vullan	12'27
256. Gown (South)	15'88	314. Whinyeon	12'22
257. Howie	15'69	315. Urr	12'06
258. nan Druimnean	15'61	316. Callater	11'99
259. an Staca	15'52	317. Burntisland	11'85
260. an Dubh (Lochy)	15'50	318. Dochard	11'84
261. Kinghorn	15'33	319. Birka	11'81
262. Craggie	15'31	320. Beag	11'80
263. Clousta	15'27	321. Buidhe (Fleet)	11'72
264. Skebacleit	15'21	322. Fadagao	11'70
265. Soulseat	15'19	323. Auchenneoch	11'69
266. an Laig Aird	15'12	324. Harrow	11'61
267. Ree	14'96	325. Coire nam Meann	11'60
268. Leven	14'87	326. Deoravat	11'60
269. Bhradain	14'83	327. Spiggie	11'59
270. an Droighinn	14'78	328. Urrahag	11'49
271. Monzievaird	14'70	329. Forfar	11'43
272. Morlich	14'62	330. an Gead	11'29
273. an Eilein (Gairloch)	14'39	331. Butterstone	11'29
274. Rainbow	14'33	332. Black (Etive) (Mid)	11'27
275. Allt an Fhearna	14'31	333. Ruthven	11'27
276. Màma	14'29	334. Muckle Water	11'08
277. Dee	14'25	335. na Lairige	10'97
278. Kindar	14'22	336. Harperrig	10'96

STATISTICAL TABLES

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TABLE IV—continued

Loch.	Mean Depth. Feet.	Loch.	Mean Depth. Feet.
337. an Nostarie	10·95	395. Peppermill	8·60
338. Aslaich	10·91	396. Castle (Annan)	8·58
339. Drumlamford	10·82	397. nan Geireann	8·47
340. ic Colla	10·77	398. Lùnn dà-Bhrà	8·44
341. Gartmorn	10·75	399. Watten	8·42
342. Cliff	10·65	400. Pitlyal	8·32
343. an Tuirc	10·60	401. Ailsh	8·30
344. na Beiste	10·56	402. Auchenchapel	8·26
345. na Déighe fo Dheas . .	10·54	403. nan Ràth	8·23
346. an Tairbeirt Stuaadhaich	10·50	404. Huna	8·22
347. Stennes	10·43	405. Langavat (Benbecula) . .	8·12
348. a' Bhuid	10·42	406. Sloy	8·12
349. Allan	10·40	407. Bà (Tay)	8·10
350. Geal	10·38	408. Whitefield	8·01
351. Loyne (East)	10·32	409. Ussie	7·98
352. Sròn Smeur	10·31	410. Chaluim	7·92
353. Drùim Suardalain	10·30	411. Threipmuir	7·90
354. Fada (N. Uist)	10·25	412. Inbhir	7·85
355. a' Chuilinn (Conon) . . .	10·22	413. nan Eun (N. Uist)	7·84
356. Punds	10·20	414. Lundie (Clunie)	7·80
357. Roer	10·16	415. Crunachan	7·79
358. Ceò-Glas	10·14	416. Oehiltree	7·68
359. Rescobie	9·99	417. Lochenbreck	7·61
360. Kirk	9·96	418. a' Bhaillidh	7·60
361. na Gealaich	9·94	419. an Lagain	7·57
362. Long	9·92	420. Linlithgow	7·55
363. nan Eun (Ness)	9·90	421. Fyntalloch	7·48
364. Poulary	9·90	422. na Craige	7·42
365. Vatandip	9·85	423. Cùil na Sífthe	7·42
366. Balgavies	9·76	424. Dercalach	7·42
367. Oban a' Chlachain	9·75	425. Fithie	7·42
368. Kilbirnie	9·72	426. Fitty	7·40
369. a' Bhainne	9·69	427. Valtos	7·40
370. Finlas	9·69	428. Leodsay	7·38
371. Martnaham	9·61	429. Heouravay	7·37
372. Borralan	9·60	430. Black (Etive) (West) . . .	7·34
373. na h-Achlaise	9·58	431. Maberry	7·32
374. Gamhna	9·56	432. Hightae Mill	7·31
375. Skae	9·52	433. nan Garbh Chlachain . . .	7·28
376. Choire na Cloich	9·44	434. Kinellan	7·14
377. a' Chaoruinn	9·37	435. Muck	7·12
378. na Moracha	9·26	436. Dubh (Ness)	7·00
379. Swannay	9·22	437. na Creige Léithe	7·00
380. Trealaval	9·22	438. Strom	7·00
381. Airidh na Lie	9·21	439. Kirriereoch	6·98
382. Cults	9·16	440. Sguod	6·91
383. Scadavay (West)	9·16	441. Muckle Lunga	6·88
384. Ghiuragarstidh	9·08	442. Gown (North)	6·87
385. Harray	9·02	443. Carlingwark	6·86
386. an Stromore	9·01	444. a' Buaille	6·82
387. a' Chonnachair	8·88	445. Essan	6·82
388. Clubbi Shuns	8·85	446. Crann	6·79
389. Crò Criosdaig	8·80	447. Mochrum	6·75
390. nam Faoileag	8·69	448. Milton	6·67
391. Veiragvat	8·68	449. North-house	6·60
392. Scadavay (East)	8·67	450. Rae	6·59
393. na Coinnich	8·62	451. Castle (Bladenoch)	6·56
394. Strandavat	8·61	452. na Salach Uidhre	6·54

TABLE IV—continued

Loch.	Mean Depth. Feet.	Loch.	Mean Depth. Feet.
453. Beannach (Gruinard)	6·45	508. Achanalt	4·50
454. Lochinvar	6·41	509. a' Chladaich	4·50
455. nan Geireann (Mill)	6·37	510. Cuil Airidh a' Flod	4·50
456. Tarruin an Eithir	6·37	511. St John's	4·50
457. Peerie	6·34	512. Bruadale	4·46
458. an Dùin (N. Uist)	6·27	513. Araich-Lin	4·45
459. Droma	6·27	514. Bradan	4·40
460. Eigheach	6·09	515. Shurrery	4·37
461. Bad a' Chrotha	6·08	516. Tankerness	4·35
462. Boardhouse	6·06	517. More Barvas	4·33
463. Aboyne	6·03	518. Hundland	4·32
464. Loyne (West)	5·93	519. Lochnaw	4·32
465. Duartmore	5·90	520. Oban nam Fiadh	4·23
466. Collaster	5·88	521. Olavat	4·20
467. Atridh na Ceardaich	5·86	522. More (Thurso)	4·18
468. Truid air Sgithiche	5·83	523. Kirbister	4·15
469. an t-Seasgain	5·72	524. Eye	4·06
470. Seoly	5·72	525. Shechernich	4·01
471. Eldrig	5·70	526. Davan	3·98
472. Cliekhimin	5·60	527. Dhomhnuill Bhig	3·90
473. Tormasad	5·60	528. Lure	3·90
474. Brouster	5·57	529. Kilconquhar	3·90
475. an Iasgaich	5·55	530. Cornish	3·80
476. Moraig	5·54	531. na Doire Daraich	3·60
477. a' Chlachain (Lewis)	5·52	532. Dallas	3·50
478. Syre	5·48	533. nan Losganan	3·50
479. Magillie	5·37	534. Uaine	3·50
480. Dornal	5·36	535. Con (Tay)	3·47
481. Mhic' ille Riabhaich	5·35	536. na Bi	3·30
482. Flugarth	5·23	537. Moor. Dam	3·27
483. Hempriggs	5·22	538. na Garbh-Abhuinn Ard	3·02
484. Laide	5·16	539. Grass	2·99
485. Duddingston	5·14	540. Dubh (Etive)	2·76
486. Asta	5·11	541. Spynie	2·71
487. Maol a' Choire	5·10	542. Blairs	2·55
488. na Stainge	5·10	543. Brow	2·50
489. Drummond	5·09	544. Bosquoy	2·50
490. Monk Myre	5·08	545. Castle Semple	2·50
491. Lindores	5·06	546. Heilen	2·50
492. Gelly	5·03	547. nan Gabhar	2·50
493. Kinord	5·03	548. St Margaret's	2·50
494. Dochart	5·02	549. Scarmclate	2·50
495. Broom	5·02	550. Tilt	2·50
496. Dhu (Portsonachan)	5·00	551. Bogton	2·00
497. Kirk Dam	5·00	552. Brough	2·00
498. Tùtach	4·88	553. Sand	2·00
499. Awe (Inver)	4·80	554. Sior	2·00
500. Sandy	4·76	555. Skail	2·00
501. Black (Tay)	4·73	556. Allt na Mult	1·50
502. Skene (Dee)	4·69	557. Buidhe (Tay)	1·50
503. Burriland	4·67	558. Isbister	1·50
504. na h-Ealaidh	4·66	559. Sabiston	1·50
505. na Garbh-Abhuinn	4·65	560. Stormont	1·50
506. na Moine	4·61	561. Wester	1·50
507. Littlester	4·55	562. Setter	1·00

TABLE V

FRESH-WATER LOCHS OF SCOTLAND (SOUNDED BY THE LAKE SURVEY)
ARRANGED ACCORDING TO VOLUME OF WATER

Loch.	Volume in Million Cubic Feet.	Loch.	Volume in Million Cubic Feet.
1. Ness	263,162	53. Doon	1,517
2. Lomond	92,805	54. Beinn a' Mheadhoin	1,435
3. Morar	81,482	55. an Dithreibh	1,366
4. Tay	56,550	56. Tummel	1,317
5. Awe (Etive)	43,451	57. Ossian	1,224
6. Maree	38,539	58. Tulla	1,167
7. Ericht	38,027	59. Beoraid	1,156
8. Lochy	37,726	60. Ard	1,150
9. Rannoch	34,387	61. Lubnaig	1,144
10. Shiel	27,986	62. Mhor	1,134
11. Katrine	27,274	63. Cam	1,063
12. Arkaig	26,573	64. Veyatie	1,062
13. Earn	14,421	65. Arienas	1,035
14. Treig	13,907	66. Voil	1,000
15. Shin	12,380	67. Stack	988
16. Fannich	10,920	68. Harray	951
17. Assynt	8,731	69. Oich	890
18. Quoich	8,345	70. Garry (Tay)	846
19. Glass	8,265	71. Owskeich	846
20. Fionn (Gruinard)	5,667	72. Obisary	837
21. Laggan	5,601	73. Dhùghaill (Carron)	823
22. More (Laxford)	4,928	74. Beannachan	819
23. Laoghal	4,628	75. na h-Oidheche	816
24. Dùn na Seilcheig	4,599	76. Ken	792
25. Fada (Ewe)	4,091	77. Calder	767
26. Hope	4,032	78. Garve	721
27. na Sheallag	3,948	79. Stenness	716
28. Garry (Ness)	3,794	80. Eilt	686
29. Frisa	3,603	81. Scamadale	685
30. Skinaskink	3,518	82. a' Bhraoin	669
31. Avich	3,327	83. Lungard	599
32. Luichart	3,288	84. Merkland	577
33. Monar	3,213	85. Menteith	562
34. Morie	3,201	86. Brora	553
35. Suainaval	2,843	87. Nell	515
36. Muick	2,771	88. na Meide	498
37. Mullardoch	2,553	89. Eilde Mòr	493
38. Naver	2,461	90. a' Bhaid-Luachraich	486
39. Langavat (Lewis)	2,388	91. Baddanloch	479
40. Eck	2,381	92. Gruuavat	478
41. Leven	2,195	93. Lyon	461
42. Damh (Torridon)	2,183	94. Insh	454
43. Affric	2,146	95. an t-Seilich	448
44. Lurgain	2,140	96. a' Chlàir (Helmsdale)	446
45. a' Chroisg	2,057	97. Talla	443
46. St Mary's	2,018	98. Creagach	429
47. Vennachar	1,903	99. Fiodhaig	415
48. Coir' an Fhearna	1,886	100. na h-Earba (West)	408
49. Bad a' Ghail	1,768	101. Lintrathen	405
50. Laidon	1,762	102. Achall	401
51. Bà (Mull)	1,602	103. a' Bhealach (Gairloch)	398
52. Clunie (Ness)	1,533	104. nan Cuiune	396

TABLE V—*continued*

Loch.	Volume in Million Cubic Feet.	Loch.	Volume in Million Cubic Feet.
105. Dubh (Gruinard)	374	162. Lowes (Tweed)	157
106. Chon (Forth)	358	163. Moy	157
107. Freuchie	347	164. Fadagao	156
108. Bunacharan	343	165. Treallaval	156
109. Watten	341	166. Bad an Sgalaig	151
110. Kernsary	333	167. a' Mhuilinn	150
111. Achilty	332	168. Boardhouse	150
112. Achray	321	169. Black (Ryan)	149
113. a' Ghriama	314	170. Cròcach	148
114. Ashie	309	171. Nant	148
115. Girsta	308	172. Iubhair	147
116. Scadavay (West)	306	173. na Leitreach	147
117. an Ruathair	304	174. Hunder	146
118. Leum a' Chlamhain	298	175. Dilate	145
119. Lochindorb	291	176. an Eilein (Spey)	144
120. Clair (Ewe)	287	177. Woodhall	144
121. Urigill	285	178. Killin	137
122. Thom	277	179. Dubh (Gairloch)	136
123. Calavie	276	180. Tariff	136
124. a' Bhaid Daraich	270	181. an Laghair	135
125. Caravat	270	182. an Duin (Spey)	134
126. Gladhouse	269	183. Ordie	133
127. Tralaig	267	184. Allt an Fhearna	132
128. Grennoch	263	185. Fad	132
129. Expansions of River Dee	261	186. na h-Airidh Sléibhe	131
130. Benisval	260	187. Skebacleit	128
131. Gainmheich (South)	246	188. Loyne (East)	123
132. Tollie	244	189. nan Geireann (Mill)	121
133. Migdale	242	190. Cliff	118
134. Swannay	242	191. Trool	116
135. a' Bhealaich (Naver)	238	192. an Leòid	114
136. Garbhaig	228	193. nan Eun (N. Uist)	114
137. Turret	222	194. Scadavay (East)	112
138. Arklet	222	195. Spiggie	111
139. Drumellie	222	196. Allt na h-Airbhe	110
140. Drunkie	217	197. an Staca	110
141. na Cuaich	214	198. Fada (Gruinard)	109
142. Bà (Tay)	206	199. an Draine	108
143. an Daimh (Shin)	205	200. Derculich	108
144. Fada (N. Uist)	199	201. Harperrig	108
145. Doine	196	202. Kennard	108
146. Gorm Loch Mòr	196	203. Pattack	106
147. Knockie	194	204. Kilbirnie	105
148. Lowes (Tay)	194	205. nan Lann	105
149. Meiklie	193	206. Urrahag	105
150. Morlich	192	207. a' Choire	103
151. na h-Earba (East)	191	208. Eela	103
152. Daimh (Tay)	190	209. Loch	103
153. na Beinne Bàine	190	210. Clings	101
154. Fionn (Kirkraig)	186	211. Strom	101
155. Ruthven	180	212. Raonaspail	94
156. Benachally	178	213. Bulg	93
157. nam Breac	172	214. na Craobhaig	93
158. Clunie (Tay)	170	215. White (Ryan)	92
159. Sgamhain	165	216. Coulin (Ewe)	90
160. Alvie	163	217. Crogavat	90
161. Dee	157	218. Skealtar	90

TABLE V—*continued*

Loch.	Volume in Million Cubic Feet.	Loch.	Volume in Million Cubic Feet.
219. Ailsh	88	276. Muckle Water	57
220. Dubh (Ailort)	87	277. a' Bhealaich (Ailsh)	56
221. Dungeon	87	278. Maberry	56
222. Gryfe	87	279. Whinyeon	56
223. Tingwall	87	280. Urr	56
224. Ghuilbinn	85	281. an t-Slagain	55
225. Giorra	84	282. Baile a' Ghobhainn	55
226. Arthur	83	283. a' Ghobhainn	54
227. Kindar	83	284. an Gead	54
228. Vaara	80	285. Butterstone	53
229. Seil	79	286. Skeen (Annan)	53
230. a' Chlachain (Nairn)	78	287. a' Phearsain	52
231. Lundie (Garry)	78	288. na Creige Duibhe	52
232. Caol na Doire	77	289. Ochiltree	52
233. Kemp	77	290. Dabadale	51
234. Skiach	77	291. Forfar	51
235. na h-Achlaise	76	292. Hundland	51
236. Portmore	76	293. a' Chuilinn (Conon)	50
237. Teàrnait	75	294. Bodavat	50
238. Lochrutton	73	295. Inbhir	50
239. Seaslavat	73	296. nan Deaspoint	50
240. an Tachdaidh	72	297. Borralan	49
241. Castle (Annan)	72	298. Craiglush	49
242. Clousta	71	299. Hempriggs	49
243. Ederline	70	300. Strandavat	49
244. na Sàlach Uidhre	70	301. Huna	48
245. a' Mhiotailt	69	302. Edgelaw	47
246. an Tomain	69	303. Lochaber	47
247. Rescobie	69	304. Martmaham	47
248. Buidhe (Fleet)	68	305. Souleseat	47
249. Mochrum	68	306. Truid air Sgithiche	47
250. Skerrow	68	307. Aithness	46
251. Ussie	68	308. Fitty	46
252. Beannach (Inver)	67	309. Eion Mhic Alastair	45
253. Doire nam Mart	67	310. Leitir Easaich	45
254. Phitihlais	67	311. Milton	45
255. a' Bharpa	66	312. More Barvas	45
256. Dubh-Mòr	66	313. an Laig Aird	44
257. Stacsavat	66	314. an Nostarie	44
258. Threipmuir	66	315. Auchenreoch	44
259. Castle (Bladenoch)	65	316. Dochard	44
260. Gartmorn	65	317. Hoglinns	44
261. Raoinavat	65	318. Langavat (Benbecula)	44
262. Dhùgaill (Torridon)	63	319. Burga	43
263. Braigh Horrisdale	62	320. Gainmheich (North)	43
264. Liath	62	321. Monikie (South)	43
265. a' Bhaillidh	61	322. na Sreinge	43
266. an Stromore	61	323. Roer	43
267. Sealbhag	61	324. Shurrery	43
268. a' Ghlinne-Dorcha	60	325. an Dùna	41
269. Coire nam Meann	60	326. Fleet	41
270. nam Breac Dearga	60	327. Kinord	41
271. Skene (Dee)	60	328. Kirbister	41
272. na Mòine Buige	59	329. Loyne (West)	40
273. an Fìleìn (Gairloch)	58	330. na Moracha	39
274. Finlas	58	331. Poulary	39
275. Rosebery	58	332. Callater	38

TABLE V—*continued*

Loch.	Volume in Million Cubic Feet.	Loch.	Volume in Million Cubic Feet.
333. Deoravat	38	390. Monzievaired	24
334. Gown (South)	38	391. na Déighe fo Dheas	24
335. ic Colla	38	392. an Lagain	23
336. na Ceithir Eileana	38	393. Araich-Lin	23
337. nam Faoileag	38	394. Crunachan	23
338. St John's	38	395. Ghuiragarstidh	23
339. a' Bhuid	37	396. Lùnn dà-Bhrà	23
340. Eye	37	397. na Beithe	23
341. Hosta	36	398. na Lairige	23
342. Mill	36	399. Sloy	23
343. Drùm Suardalain	35	400. Sròn Smeur	23
344. Morsgail	35	401. Balgavies	22
345. an Duin (N. Uist)	34	402. Beannach (Gruinard)	22
346. Bhradain	34	403. Bhac	22
347. Fiart	34	404. Burntisland	22
348. Linlithgow	34	405. Castle Semple	22
349. nan Eun (Tay)	34	406. Black (Etive) (East)	21
350. Peppermill	34	407. Heilen	21
351. Chalum	33	408. Scarmclate	21
352. Holl	33	409. Drummond	20
353. an Droighinn	32	410. Kinghorn	20
354. Droma	32	411. na Claise Fèarna	20
355. Fingask	32	412. Oban a' Chlachain	20
356. Gelly	32	413. Veiragvat	20
357. Long	32	414. Airdh na Lic	19
358. More (Thurso)	32	415. Broom	19
359. Sguod	32	416. Cùil na Sithe	19
360. Achanalt	31	417. Eileach Mhic' ille Riabhach	19
361. Carlingwark	31	418. Harrow	19
362. Crò Criosdaig	31	419. Lochinvar	19
363. Crombie Den	31	420. Awe (Inver)	18
364. Fender	31	421. na Moine	18
365. Harperleas	31	422. Uanagan	18
366. Howie	31	423. Black (Etive) (Mid)	17
367. White of Myrton	30	424. Muckle Lunga	17
368. Craggie	30	425. Oban nam Fiadh	17
369. Harelaw	30	426. Ree	17
370. Hermidale	29	427. Whitefield	16
371. Hoil	29	428. Bradan	16
372. Kilchoan (Upper)	29	429. Eigheach	16
373. Tankerness	28	430. Gleann a' Bhearraidh	16
374. an Losgainn Mòr	27	431. Kilchoan (Lower)	16
375. Breaclaich	27	432. Kilconquhar	16
376. Snarravoe	27	433. Leodsay	16
377. Vatandip	27	434. North-house	16
378. Dornal	26	435. Valtos	16
379. Heouravay	26	436. a' Chonnachair	15
380. Kilcheran	26	437. a' Vullan	15
381. Monikie (North)	26	438. Birka	15
382. nan Drummnean	26	439. Kirk	15
383. Olavat	26	440. nan Eun (Ness)	15
384. Punds	26	441. a' Bhainne	14
385. an Tuire	25	442. Gown (North)	14
386. Davan	25	443. Anna	13
387. Syre	25	444. Beag	13
388. Ceò-Glas	24	445. Bran	12
389. Lindores	24	446. Bruadale	13

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Loch.	Volume in Million Cubic Feet.	Loch.	Volume in Million Cubic Feet.
447. Drumlamford	13	505. na Doire Daraich	7
448. Hostigates	13	506. na Gealaich	7
449. Littlester	13	507. Shechernich	7
450. Lochenbreck	13	508. Spynie	7
451. na h-Ealaidh	13	509. Wester	7
452. Skaill	13	510. a' Buaille	6
453. Auchenchapel	13	511. an Dubh (Lochy)	6
454. Bad a' Chrotha	12	512. Dallas	6
455. Cuil Airidh a' Flod	12	513. Hightae Mill	6
456. Derclach	12	514. na Bi	6
457. Geal	12	515. na Garbh-Abhuinn	6
458. Kirk Dam	12	516. nan Aùscot	6
459. na Coinnich	12	517. Monk Myre	6
460. Tormasad	12	518. Loch on Eilean Subhainn .	6
461. a' Chlachain (Lewis) . . .	11	519. Bogton	5
462. Burraland	11	520. Brouster	5
463. Clickhimin	11	521. Brow	5
464. Eldrig	11	522. Isbister	5
465. Màma	11	523. Kinellan	5
466. na Beiste	11	524. Kirrieroech	5
467. na Stainge	11	525. Lure	5
468. nan Garbh Chlachain . . .	11	526. nan Gabhar	5
469. Peerie	11	527. nan làth	5
470. Aboyne	10	528. Pitlyal	5
471. Allan	10	529. Sabiston	5
472. Aslaich	10	530. Stormont	5
473. Black (Etive) (West) . . .	10	531. an t-Seasgain	4
474. Con (Tay)	10	532. Crann	4
475. Dochart	10	533. Duddingston	4
476. Essan	10	534. Grass	4
477. Gamhna	10	535. Maol a' Choire	4
478. na h-Eaglais	10	536. Tùtach	4
479. nan Geireann	10	537. Blairs	3
480. Tarruinn an Eithir	10	538. Cornish	3
481. Airidh na Ceardaich	9	539. Duartmore	3
482. an Iasgaich	9	540. Magillie	3
483. Laide	9	541. na Garbh-Abhuinn Ard . .	3
484. Lochnaw	9	542. Scoly	3
485. Lundie (Clunie)	9	543. a' Chladaich	2
486. Moraig	9	544. an Tairbeirt Stuaðhaich .	2
487. Muck	9	545. Black (Tay)	2
488. Rae	9	546. Brough	2
489. Sandy	9	547. Buidhe (Tay)	2
490. Flugarth	8	548. Choire na Cloich	2
491. Fyntalloch	8	549. Dubh (Etive)	2
492. Mhic' ille Riabhaich	8	550. Dubh (Ness)	2
493. na Craige	8	551. na Creige Leithe	2
494. Skae	8	552. Rainbow	2
495. White (Tay)	8	553. Sior	2
496. a' Chaoruinn	7	554. Tilt	2
497. Asta	7	555. nan Losganan	1
498. Bosquoy	7	556. Sand	1
499. Clubbi Shuns	7	557. Uaine	0.7
500. Collaster	7	558. Dubh (Forth)	0.6
501. Cults	7	559. Setter	0.6
502. Dhomhnuill Bhig	7	560. Dhu (Portsonachan) . . .	0.5
503. Fithie	7	561. St Margaret's	0.4
504. Moor Dam	7	562. Allt na Mult	0.1

TABLE VI

FRESH-WATER LOCHS OF SCOTLAND (SOUNDED BY THE LAKE SURVEY)
SHOWING SUMMARY OF PHYSICAL RESULTS

Basins.	Number of Lochs.	Number of Sound- ings.	Volume in Million Cubic Feet.	Area of Lochs in Square Miles.	Drainage Area.	
					Total in Square Miles.	Ratio to Area of Lochs.
Forth	13	3,825	36,543	17·02	227·66	13·38
Tay	59	6,851	151,353	39·81	1099·52	27·62
Inver, Roe, Kirkaig, Polly, Garvie	21	2,540	20,355	12·64	150·44	11·9
Morar	3	1,284	82,686	10·99	65·63	6·0
Ewe	14	2,473	44,530	14·80	185·51	12·5
Shiel, Ailort, nan Uamh . .	6	1,191	28,967	8·58	99·97	11·65
Conon	16	2,188	29,850	11·65	366·33	31·5
Shin	11	1,564	14,538	12·11	239·69	19·8
Naver, Borgie, Kinloch, Hope	11	1,409	15,615	11·06	239·46	21·7
Beaully	13	841	11,227	5·76	215·26	37·4
Lochy	12	2,570	85,855	19·88	293·42	14·8
Ness	33	4,385	280,923	34·25	689·14	20·1
Brora, Helmsdale	11	700	2,756	6·68	202·89	30·4
Wick, Wester, Heilen, Dunnet, Thurso, Forss Laxford, Scourie, Badcall, Duartmore	9	681	1,319	4·82	168·25	34·9
Broom, Gruinard	10	994	6,679	3·35	59·20	17·7
Gairloch, Torridon, Carron Alsh, Aline, Leven	11	1,141	11,312	7·10	111·50	15·7
Oban, Feochan, Seil, Mel- fort	12	1,098	4,921	3·90	98·46	25·2
Bute, Eachaig	10	570	2,067	2·51	85·25	33·9
Doon, Girvan, Stinchar, Ryan, Galdenoch	13	855	1,328	1·66	34·03	20·5
Luce, Bladenoch, Cree . .	3	372	2,525	2·07	44·89	21·7
Fleet, Dee	13	1,028	1,935	3·40	75·16	22·1
Urr, Nith, Annan	15	594	427	2·12	35·43	16·7
Tweed, Monikie, Lunan, Dee, Slains	13	954	1,951	4·02	298·89	74·4
Spey	14	599	652	1·79	24·77	13·7
Lossie, Findhorn, Nairn . .	16	879	5,762	4·24	121·19	28·6
Lismore, Mull, Benbecula North Uist	13	663	2,053	2·63	350·50	133·3
Lewis	10	655	5,179	3·50	42·41	12·1
Orkney	11	728	5,475	3·75	35·54	9·5
Shetland	40	3,751	3,026	8·66	45·29	5·2
Forth (Reservoirs)	30	2,896	7,409	9·64	151·98	15·8
Etive	14	932	2,321	9·98	90·36	9·1
Clyde	31	1,707	1,416	5·36	51·89	9·7
Tay, Linnhe	20	1,065	998	3·07	43·69	14·2
	21	2,619	48,451	18·19	307·55	16·9
	7	2,487	93,331	29·00	314·40	10·8
	3	106	79	0·23	3·51	15·3
	562	59,195	1,015,814 =6·9 cubic miles	340·22	6669·06	19·6

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MAPS

SCALE
OF
COLOURS

ABOVE
3750

3750
TO
3500

3500
TO
3250

3250
TO
3000

3000
TO
2750

2750
TO
2500

2500
TO
2250

2250
TO
2000

2000
TO
1750

1750
TO
1500

1500
TO
1250

1250
TO
1000

1000
TO
750

750
TO
500

500
TO
250

250
TO
SEA
LEVEL

TO
5

5
TO
10

10
TO
20

20
TO
30

30
TO
40

40
TO
50

50
TO
80

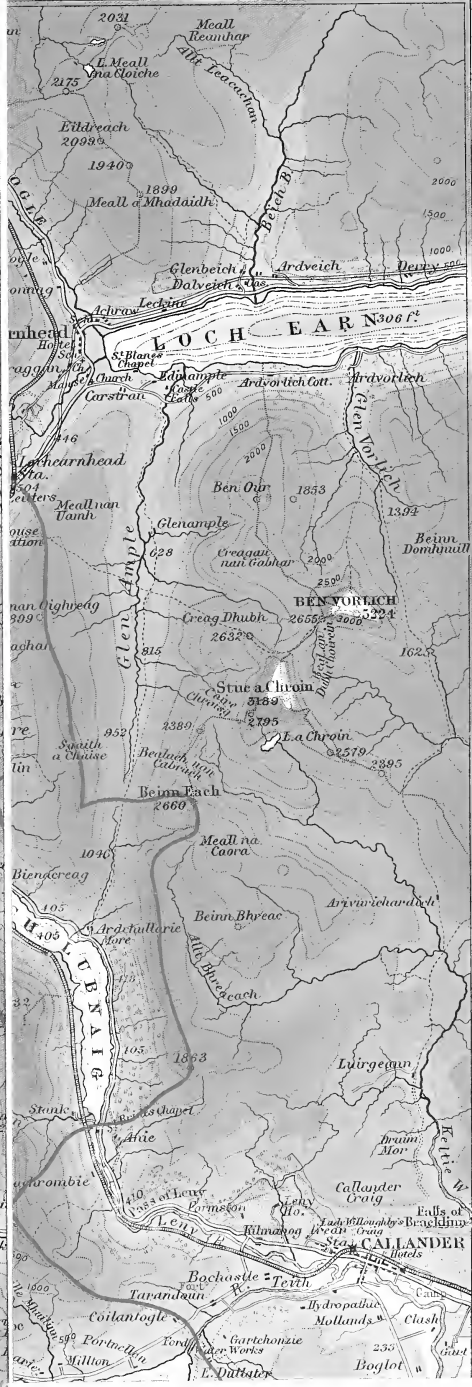
BELOW
80

OROGRAPHICAL COLOURING

BATHYGRAPHICAL COLOURING

Contours are drawn at intervals of 250 feet and tinted according to Height

Contours showing Depth in Fathoms



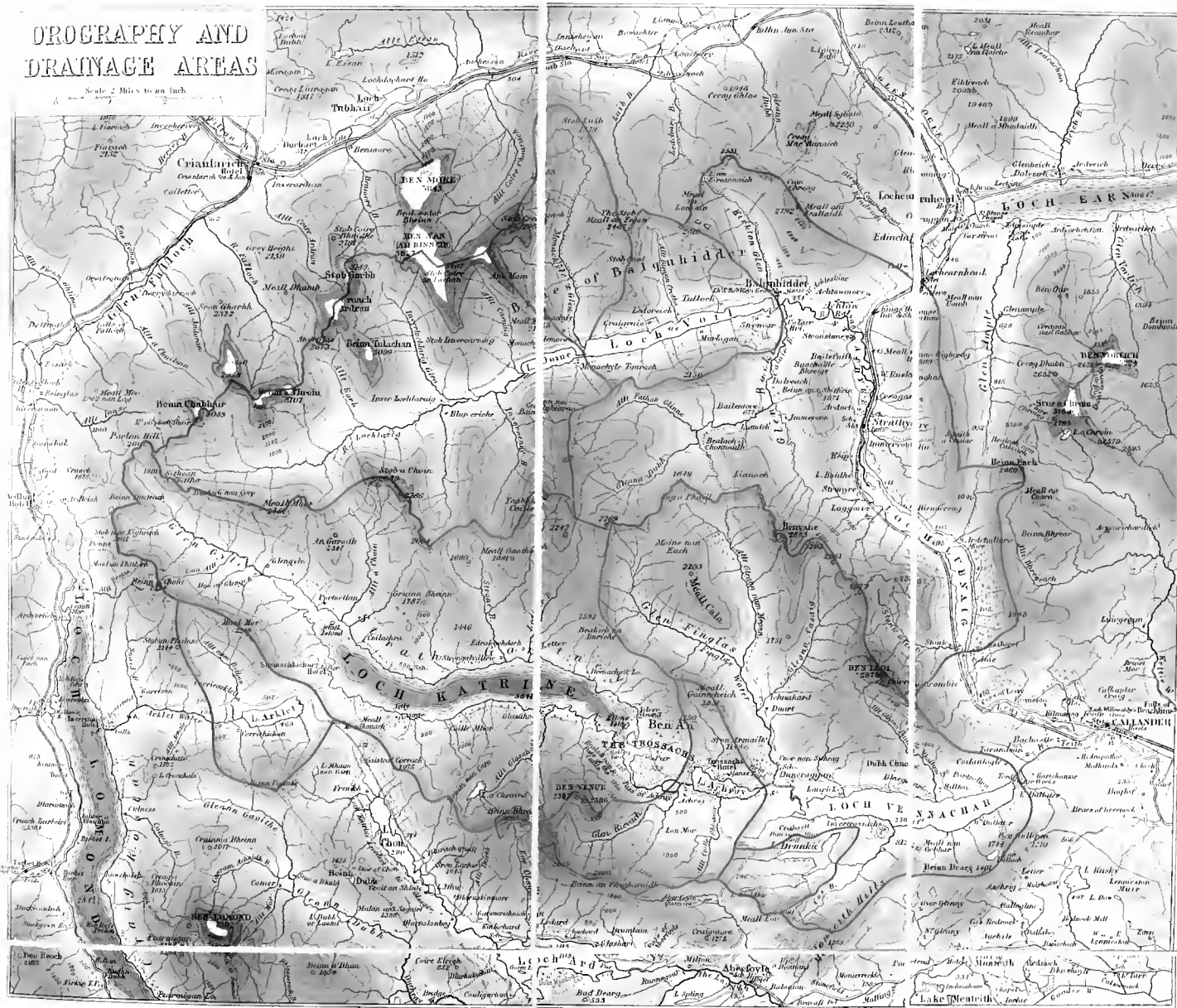
BATHYMETRICAL SURVEY OF THE SCOTTISH LOCHS.

BY SIR JOHN MURRAY, K.C.B., I.D., F.R.S. AND FRED. P. PULLAR, F.R.G.S.

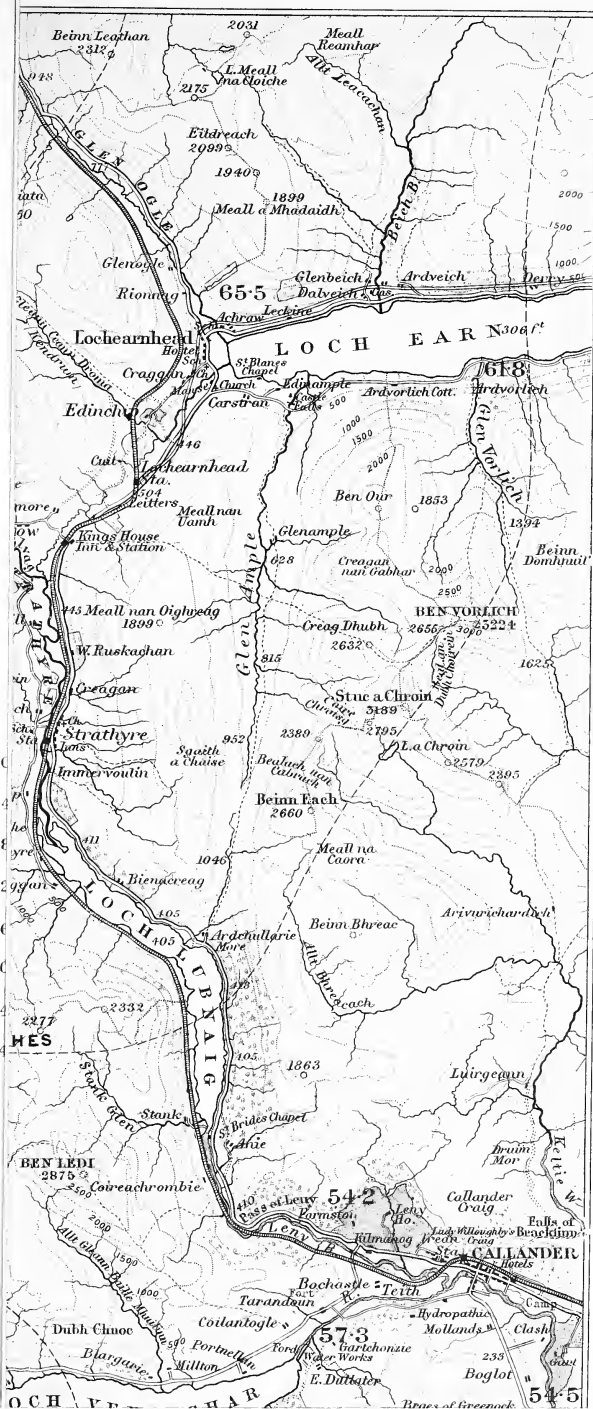
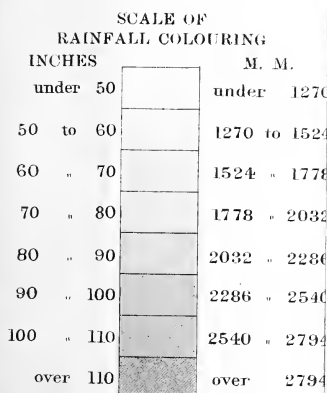
PLATE I

OROGRAPHY AND DRAINAGE AREAS

Scale 2 Miles to an Inch





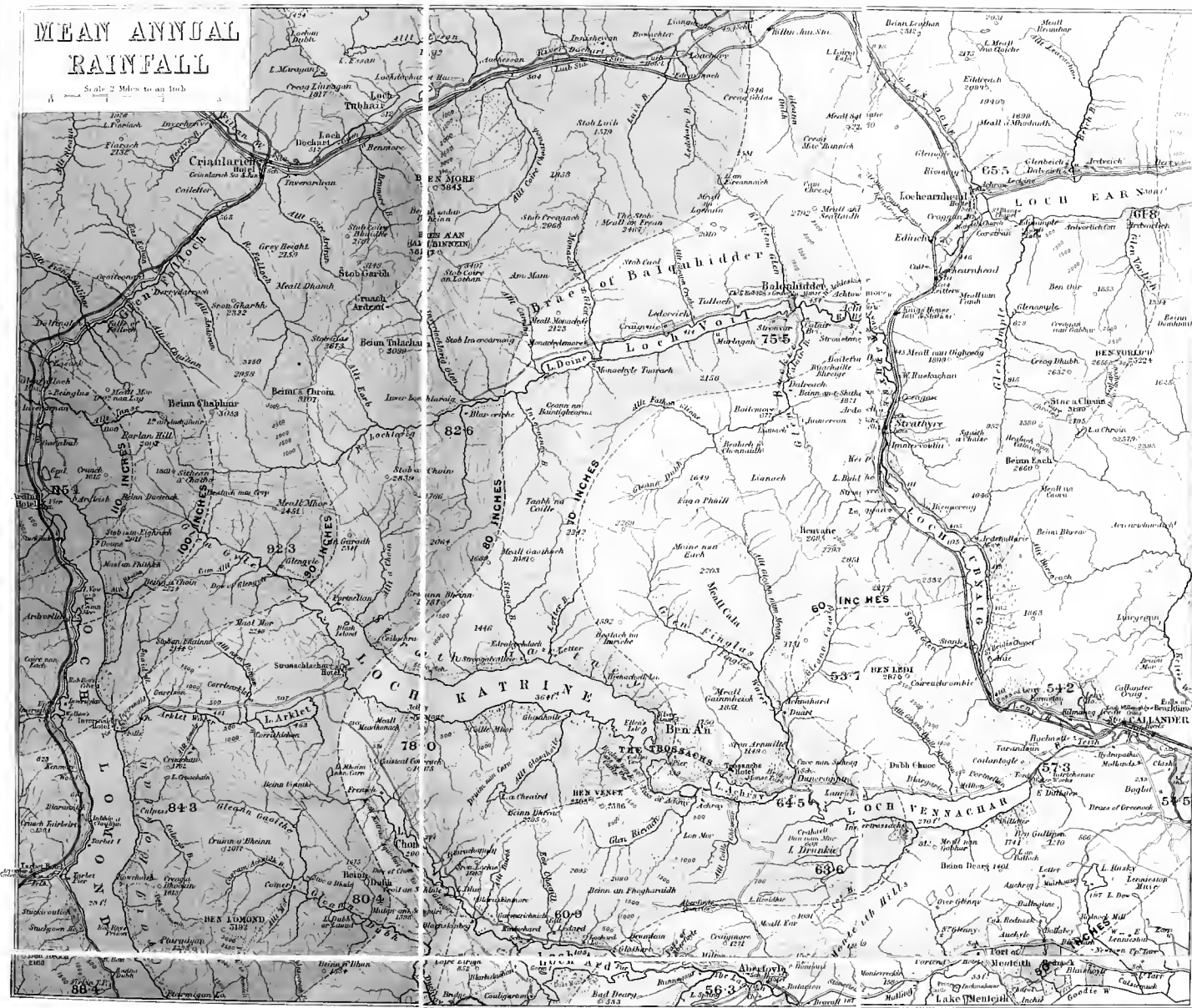


MEAN ANNUAL RAINFALL

Scale 2 Miles to an Inch

SCALE OF RAINFALL IN INCHES.

INCHES	FEET
50	4.17
60	5.00
70	5.83
80	6.67
90	7.50
100	8.33
110	9.17
120	10.00
130	10.83
140	11.67
150	12.50
160	13.33
170	14.17
180	15.00
190	15.83
200	16.67
210	17.50
220	18.33
230	19.17
240	20.00
250	20.83
260	21.67
270	22.50
280	23.33
290	24.17
300	25.00
310	25.83
320	26.67
330	27.50
340	28.33
350	29.17
360	30.00
370	30.83
380	31.67
390	32.50
400	33.33
410	34.17
420	35.00
430	35.83
440	36.67
450	37.50
460	38.33
470	39.17
480	40.00
490	40.83
500	41.67
510	42.50
520	43.33
530	44.17
540	45.00
550	45.83
560	46.67
570	47.50
580	48.33
590	49.17
600	50.00
610	50.83
620	51.67
630	52.50
640	53.33
650	54.17
660	55.00
670	55.83
680	56.67
690	57.50
700	58.33
710	59.17
720	60.00
730	60.83
740	61.67
750	62.50
760	63.33
770	64.17
780	65.00
790	65.83
800	66.67
810	67.50
820	68.33
830	69.17
840	70.00
850	70.83
860	71.67
870	72.50
880	73.33
890	74.17
900	75.00
910	75.83
920	76.67
930	77.50
940	78.33
950	79.17
960	80.00
970	80.83
980	81.67
990	82.50
1000	83.33



4° 27'

4° 26'

CHS KATRINE & ARKLET

SURVEYED IN 1899

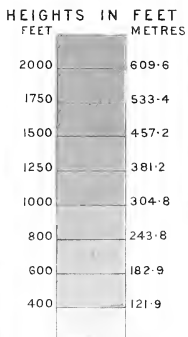
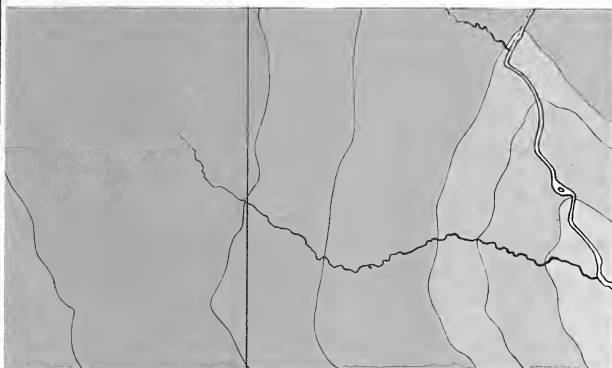
56°
17'



56°
17'

Height of Surface of Water above Sea Level { L. Katrine 364
L. Arklet 455 } Feet

The Land contours are from the Ordnance Survey



BATHYMETRIC SURVEY OF THE SCOTTISH LOCHS

By Sir JOHN MURRAY KCB, LL.D, FRS AND FRED P. PULLAR FRGS

IV

LOCHS KATRINE & ARKLET

SURVEYED IN 1864

Scale of 1 inch = 1 mile

Height of Surface of Water above Sea Level

The Contour Lines are in the Ordinance Survey

HEIGHT IN FEET
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000

DEPTH IN FEET
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200

Scale of 1 inch = 1 mile

Scale of 1 inch = 1 mile

Scale of 1 inch = 1 mile

Scale of 1 inch = 1 mile

Scale of 1 inch = 1 mile

Scale of 1 inch = 1 mile

Scale of 1 inch = 1 mile

Scale of 1 inch = 1 mile

Scale of 1 inch = 1 mile

Scale of 1 inch = 1 mile

Scale of 1 inch = 1 mile

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Scale of 1 inch = 1 mile

Scale of 1 inch = 1 mile

Scale of 1 inch = 1 mile

Scale of 1 inch = 1 mile

Scale of 1 inch = 1 mile

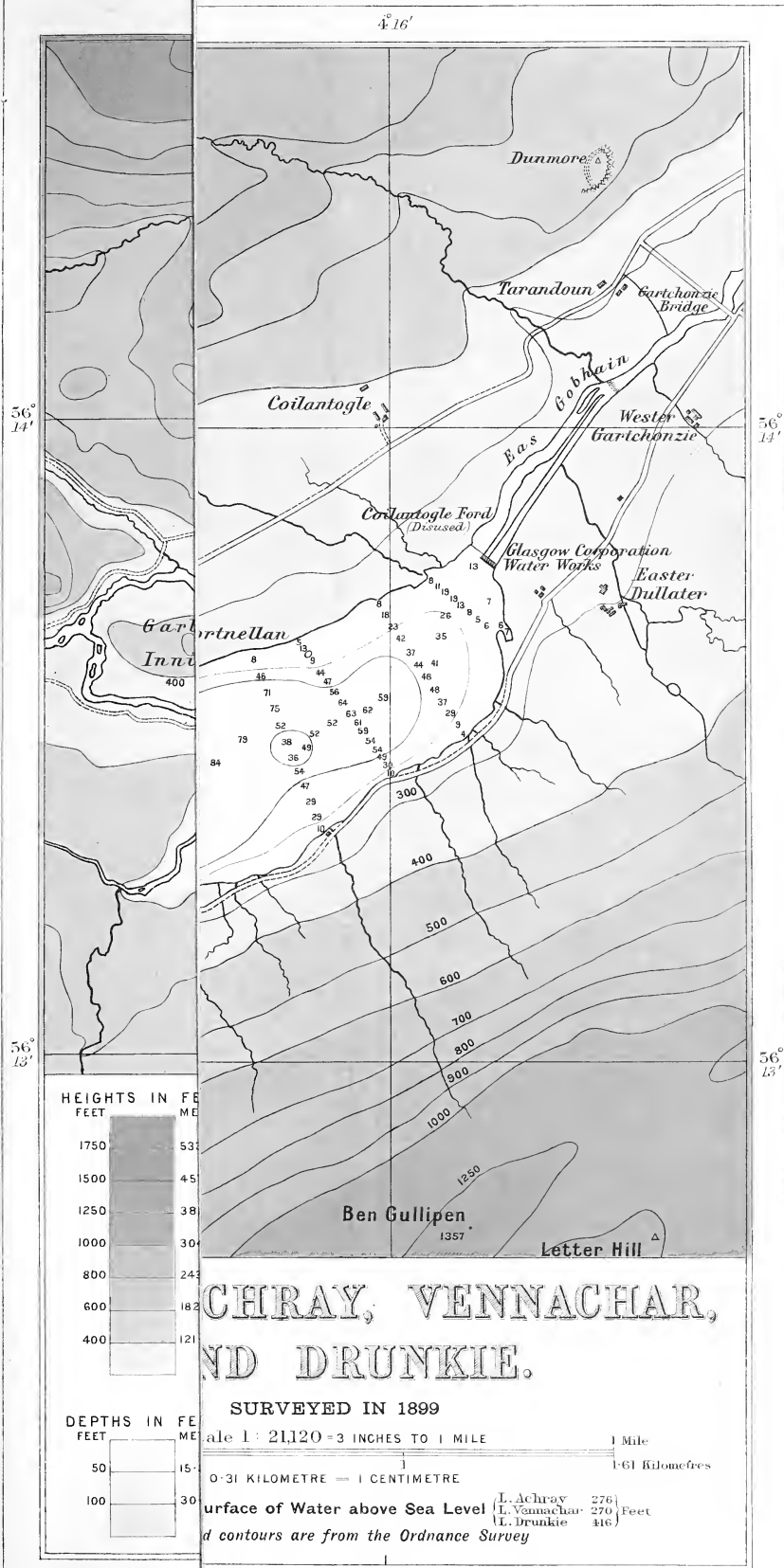
Scale of 1 inch = 1 mile

Scale of 1 inch = 1 mile

Scale of 1 inch = 1 mile

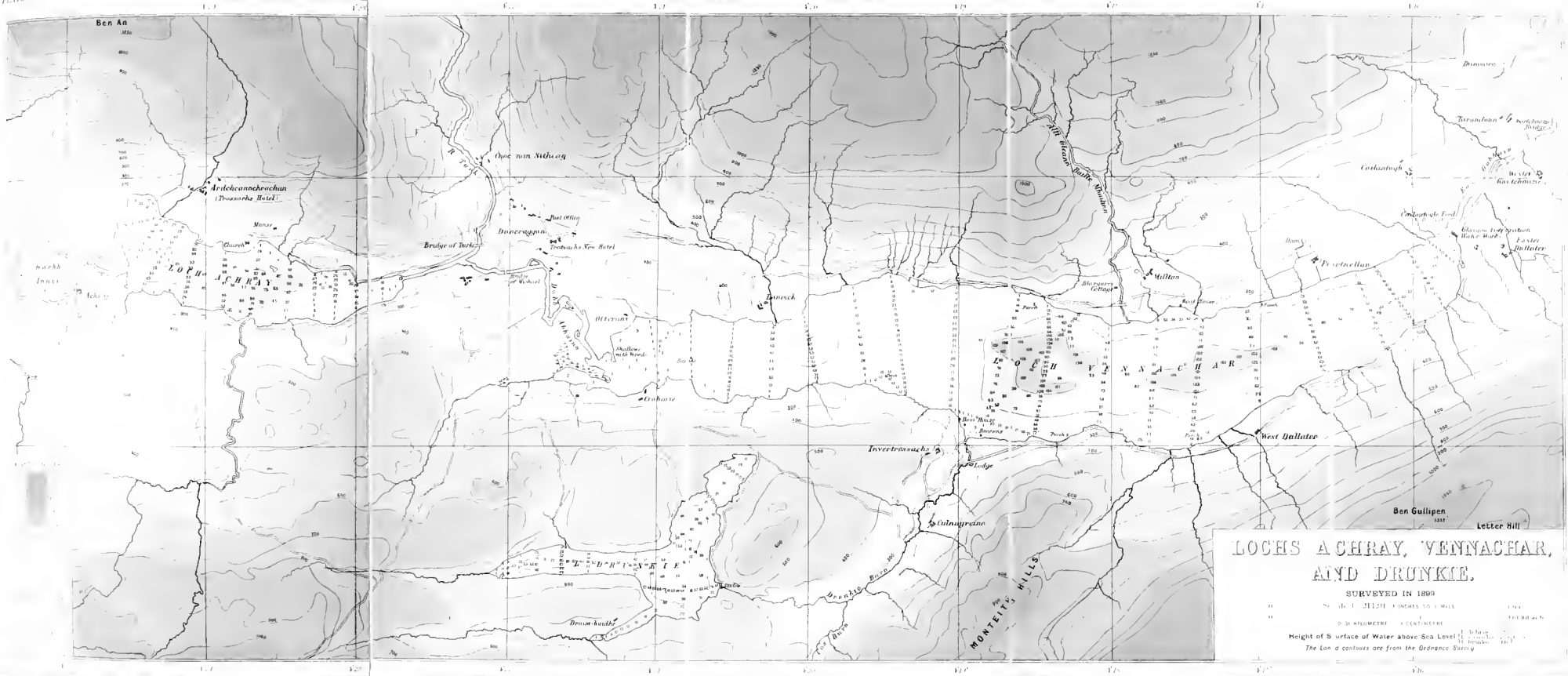
Scale of 1 inch = 1 mile

Scale of 1 inch = 1 mile



BATHYMETRIC SURVEY OF THE SCOTTISH LOCHS.

By SIR JOHN MURRAY, KCB, LL.D. F.R.S. AND FRED P. PULLAR, FRGS.



LOCHS ACHRAY, VENNACHAR, AND DRUNKIE.

SURVEYED IN 1899

Scale 1:25,000

0.31 KILOMETRE 1 CENTIMETRE

Height of Surface of Water above Sea Level
The Land contours are from the Ordnance Survey

PLATE



171, 171, 17

BY SIR JOHN MURRAY KCB, LL.D. FRS. AND FRED P. PULLAR FRGS

SURVEYED IN 1964

© 2000 Blackwell Science Ltd *Journal of Internal Medicine* 247: 361–368

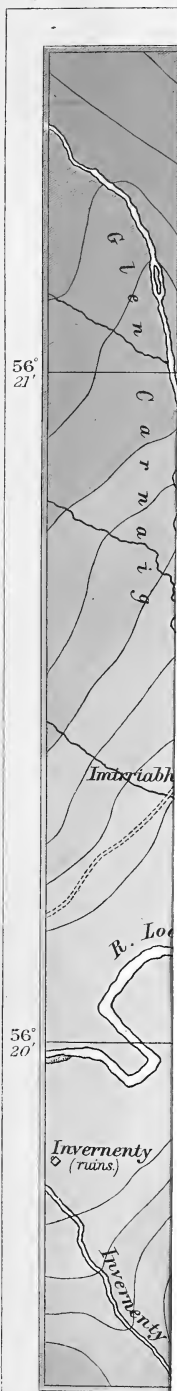
Height of Surface of Water above Sea Level 404 Feet
The Land contains 101 from the Ordnance Survey



The Enchanté is 84 ft.

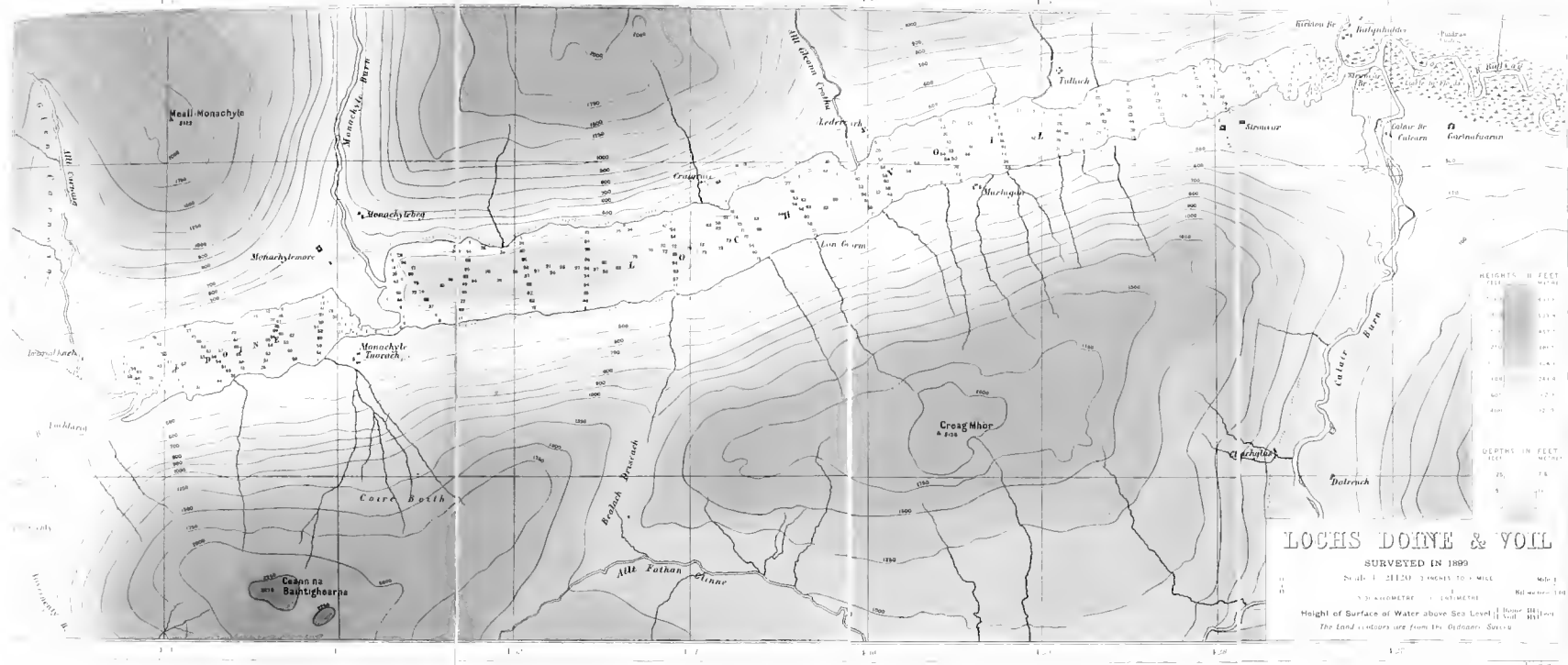
 ϵ' is the relaxation time,

PLATE VII



BATHYMETRICAL SURVEY OF THE SCOTTISH LOCHS.

By SIR JOHN MURRAY, K.C.B., LL.D., F.R.S., AND FRED P. PULLAR, FRGS.



HEIGHTS IN FEET	FEET	METRES
100	30.5	30.5
200	61.0	61.0
300	91.4	91.4
400	121.9	121.9
500	152.4	152.4
600	182.9	182.9
700	213.4	213.4
800	243.8	243.8
900	274.3	274.3
1000	304.8	304.8
1100	335.3	335.3
1200	365.8	365.8
1300	396.2	396.2
1400	426.7	426.7
1500	457.2	457.2
1600	487.7	487.7
1700	518.2	518.2
1800	548.7	548.7
1900	579.2	579.2
2000	609.7	609.7
2100	640.2	640.2
2200	670.7	670.7
2300	701.2	701.2
2400	731.7	731.7
2500	762.2	762.2
2600	792.7	792.7
2700	823.2	823.2
2800	853.7	853.7
2900	884.2	884.2
3000	914.7	914.7
3100	945.2	945.2
3200	975.7	975.7
3300	1006.2	1006.2
3400	1036.7	1036.7
3500	1067.2	1067.2
3600	1097.7	1097.7
3700	1128.2	1128.2
3800	1158.7	1158.7
3900	1189.2	1189.2
4000	1219.7	1219.7
4100	1250.2	1250.2
4200	1280.7	1280.7
4300	1311.2	1311.2
4400	1341.7	1341.7
4500	1372.2	1372.2
4600	1402.7	1402.7
4700	1433.2	1433.2
4800	1463.7	1463.7
4900	1494.2	1494.2
5000	1524.7	1524.7
5100	1555.2	1555.2
5200	1585.7	1585.7
5300	1616.2	1616.2
5400	1646.7	1646.7
5500	1677.2	1677.2
5600	1707.7	1707.7
5700	1738.2	1738.2
5800	1768.7	1768.7
5900	1799.2	1799.2
6000	1829.7	1829.7
6100	1860.2	1860.2
6200	1890.7	1890.7
6300	1921.2	1921.2
6400	1951.7	1951.7
6500	1982.2	1982.2
6600	2012.7	2012.7
6700	2043.2	2043.2
6800	2073.7	2073.7
6900	2104.2	2104.2
7000	2134.7	2134.7
7100	2165.2	2165.2
7200	2195.7	2195.7
7300	2226.2	2226.2
7400	2256.7	2256.7
7500	2287.2	2287.2
7600	2317.7	2317.7
7700	2348.2	2348.2
7800	2378.7	2378.7
7900	2409.2	2409.2
8000	2439.7	2439.7
8100	2470.2	2470.2
8200	2500.7	2500.7
8300	2531.2	2531.2
8400	2561.7	2561.7
8500	2592.2	2592.2
8600	2622.7	2622.7
8700	2653.2	2653.2
8800	2683.7	2683.7
8900	2714.2	2714.2
9000	2744.7	2744.7
9100	2775.2	2775.2
9200	2805.7	2805.7
9300	2836.2	2836.2
9400	2866.7	2866.7
9500	2897.2	2897.2
9600	2927.7	2927.7
9700	2958.2	2958.2
9800	2988.7	2988.7
9900	3019.2	3019.2
10000	3049.7	3049.7

DEPTHS IN FEET	FEET	METRES
10	3.0	3.0
20	6.1	6.1
30	9.1	9.1
40	12.2	12.2
50	15.2	15.2
60	18.3	18.3
70	21.3	21.3
80	24.4	24.4
90	27.4	27.4
100	30.5	30.5
110	33.5	33.5
120	36.6	36.6
130	39.6	39.6
140	42.7	42.7
150	45.7	45.7
160	48.8	48.8
170	51.8	51.8
180	54.9	54.9
190	57.9	57.9
200	61.0	61.0
210	64.0	64.0
220	67.1	67.1
230	70.1	70.1
240	73.2	73.2
250	76.2	76.2
260	79.3	79.3
270	82.3	82.3
280	85.4	85.4
290	88.4	88.4
300	91.4	91.4
310	94.5	94.5
320	97.5	97.5
330	100.6	100.6
340	103.7	103.7
350	106.7	106.7
360	109.8	109.8
370	112.8	112.8
380	115.9	115.9
390	118.9	118.9
400	121.9	121.9
410	125.0	125.0
420	128.0	128.0
430	131.1	131.1
440	134.1	134.1
450	137.2	137.2
460	140.2	140.2
470	143.3	143.3
480	146.3	146.3
490	149.4	149.4
500	152.4	152.4
510	155.5	155.5
520	158.5	158.5
530	161.6	161.6
540	164.6	164.6
550	167.7	167.7
560	170.7	170.7
570	173.8	173.8
580	176.8	176.8
590	179.9	179.9
600	182.9	182.9
610	186.0	186.0
620	189.0	189.0
630	192.1	192.1
640	195.1	195.1
650	198.2	198.2
660	201.2	201.2
670	204.3	204.3
680	207.3	207.3
690	210.4	210.4
700	213.4	213.4
710	216.5	216.5
720	219.5	219.5
730	222.6	222.6
740	225.6	225.6
750	228.7	228.7
760	231.7	231.7
770	234.8	234.8
780	237.8	237.8
790	240.9	240.9
800	243.9	243.9
810	247.0	247.0
820	250.0	250.0
830	253.1	253.1
840	256.1	256.1
850	259.2	259.2
860	262.2	262.2
870	265.3	265.3
880	268.3	268.3
890	271.4	271.4
900	274.4	274.4
910	277.5	277.5
920	280.5	280.5
930	283.6	283.6
940	286.6	286.6
950	289.7	289.7
960	292.7	292.7
970	295.8	295.8
980	298.8	298.8
990	301.9	301.9
1000	304.9	304.9

LOCHS DOINE & VOIL

SURVEYED IN 1899

Scale 1:25000 1 INCHES TO 1 MILE

1:25000 1 INCHES TO 1 MILE

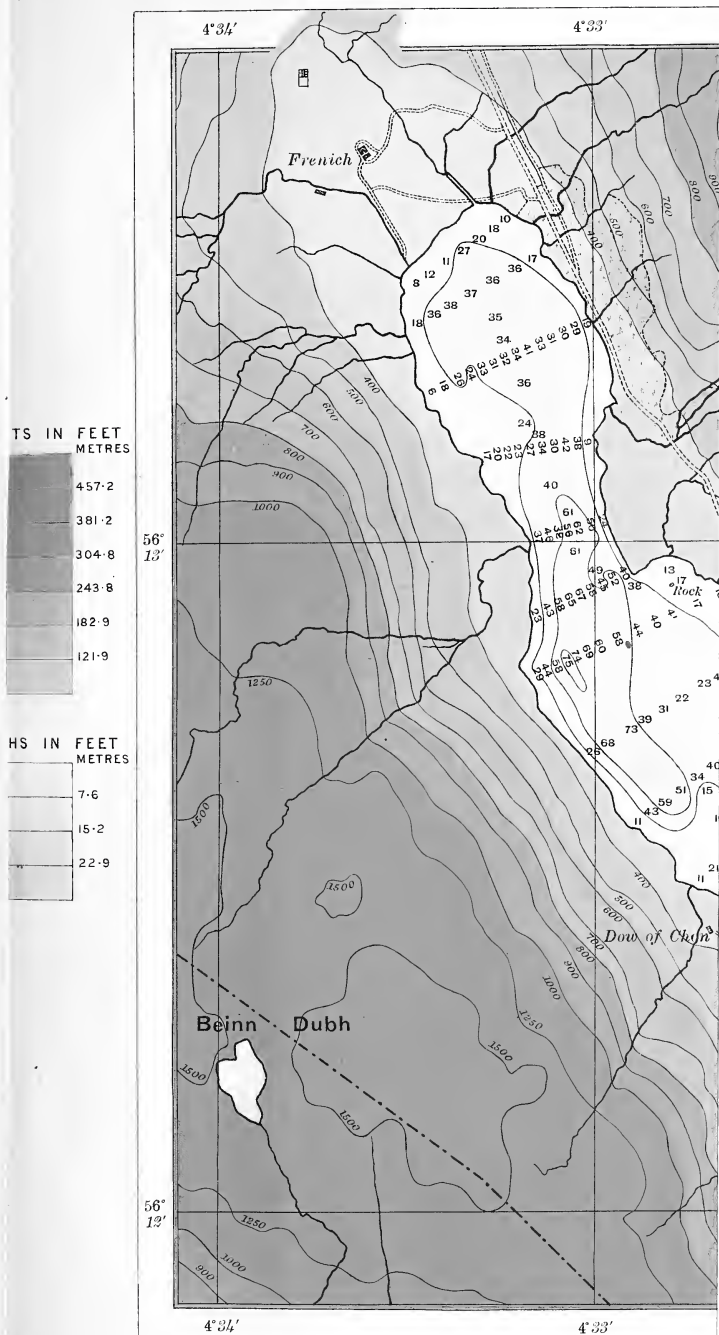
Height of Surface of Water above Sea Level (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)

The Land contours are from the Ordnance Survey

PLATE I

BATHYMETRICAL SURVEY OF

BY SIR JOHN MURRAY, K.C.B., LL.D., F.R.S.

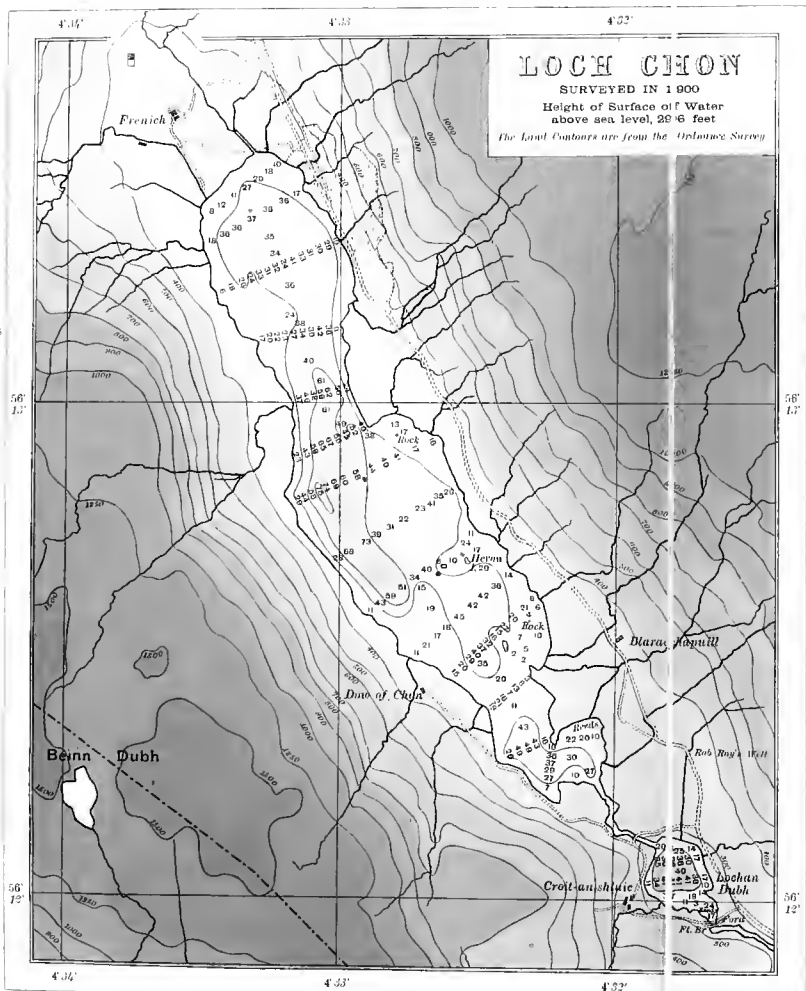


The Edinburgh Geographical Institute

Published by the Royal Ge

BATHYMETRICAL SURVEY OF THE SCOTTISH LOCHS.

BY SIR JOHN MURRAY, K.C.B., LL.D., F.R.S., AND FRED. P. PULLAR, F.R.G.S.



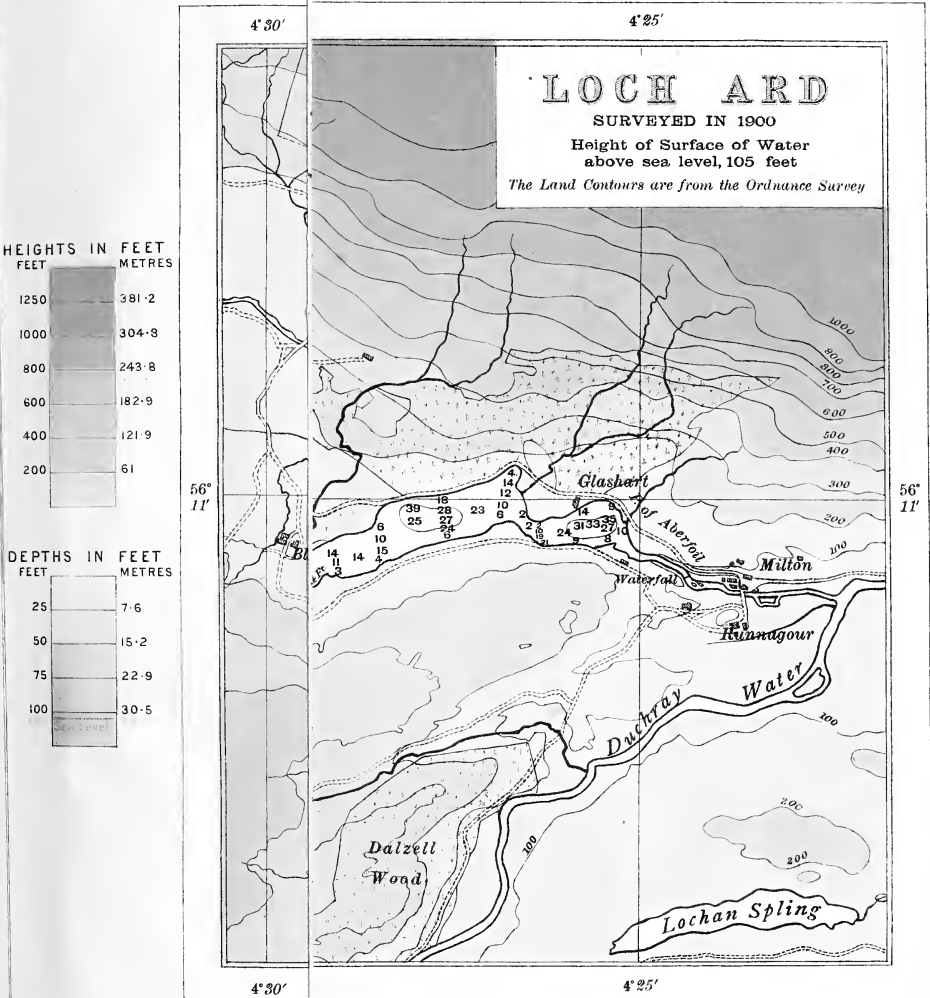
The Edinburgh Geographical Institute

J. O. Bartholomew

Scale 1 21120 3 INCHES TO 1 MILE
 0 21 KILOMETRE — 1 CENTIMETRE
 Mik 1
 Kilometres 161

PLATE

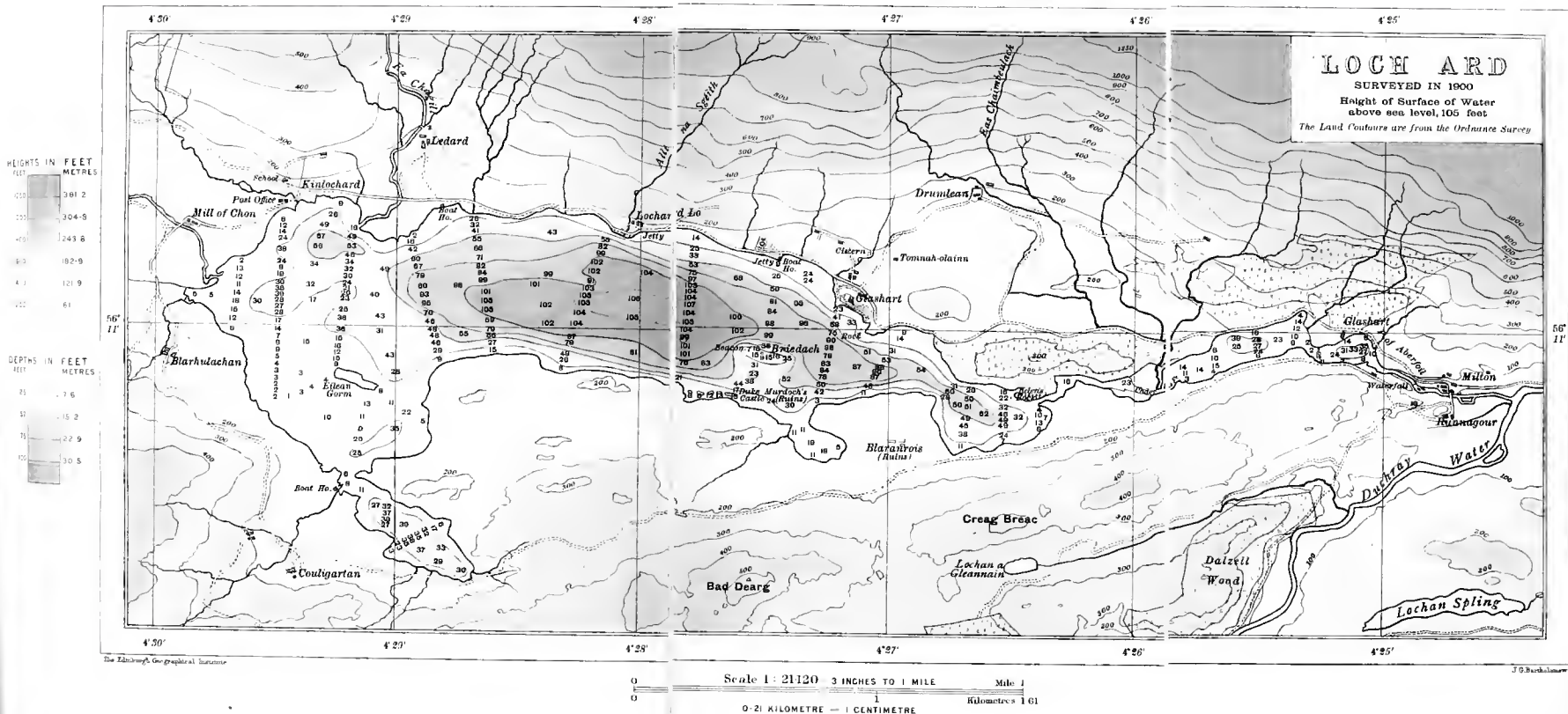
THE GEOGRAPHICAL JOURNAL 1901



The Edinburgh Geograph

J. G. Bartholomew

BY SIR JOHN I MURRAY, K.C.B., LL.D., F.R.S., AND FRED. P. PULLAR, F.R.G.S.



Published by the Royal Geographical Society

PLATE III

BATHYMETRY

BY

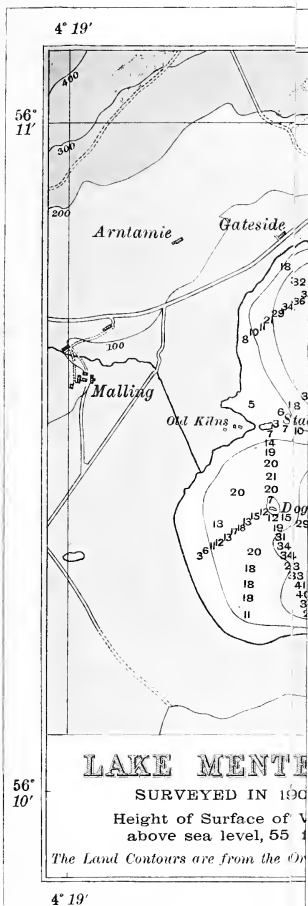
HEIGHTS IN FEET
METRES

400	121.9
200	61

DEPTHS IN FEET
METRES

10	3.05
25	7.6
50	15.2
75	22.9

Sea Level

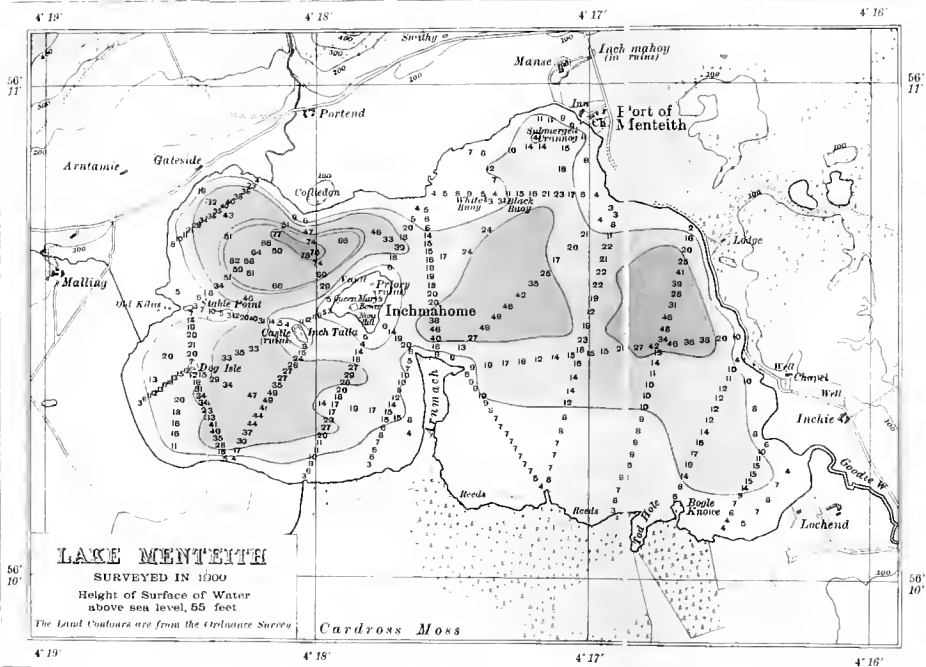


The Edinburgh Geographical Institute

PLATE III

BATHYMETRICAL SURVEY OF THE SCOTTISH LOCHS.

By SIR JOHN MURRAY, K.C.B., LL.D., F.R.S., AND FRED. P. LILLAR, F.R.C.S.

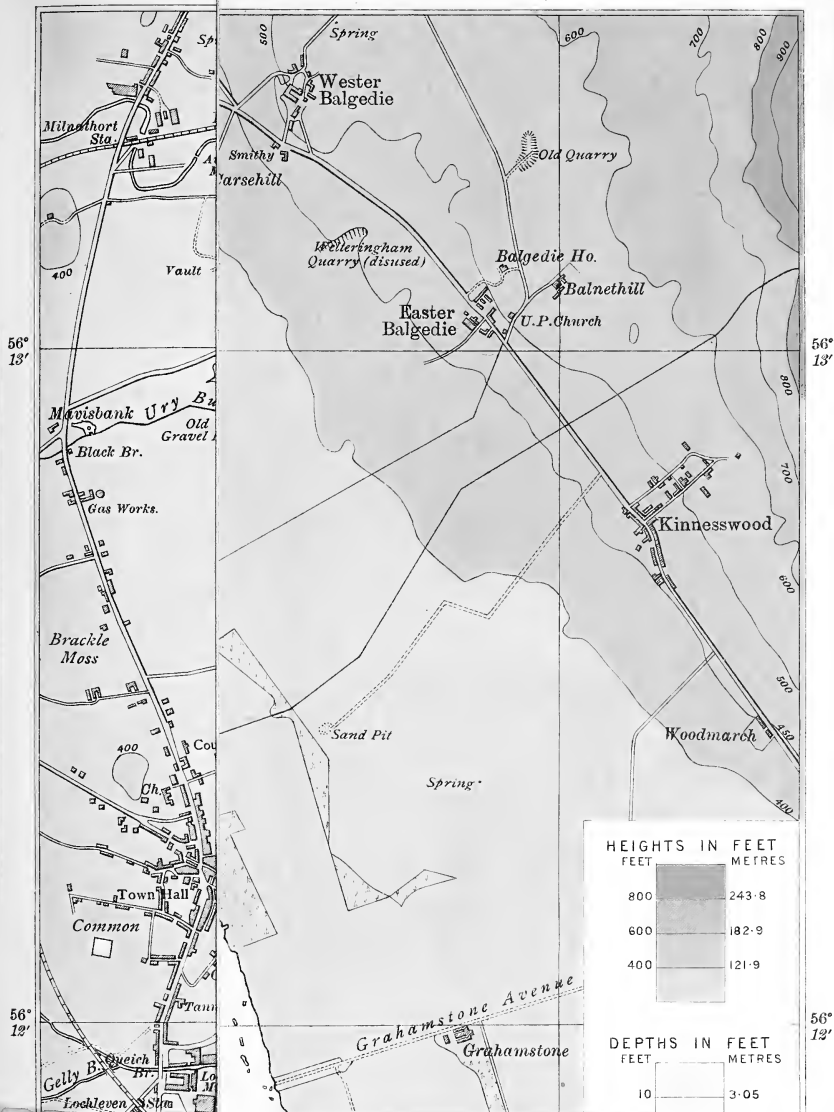


The Edinburgh Geographical Institute.

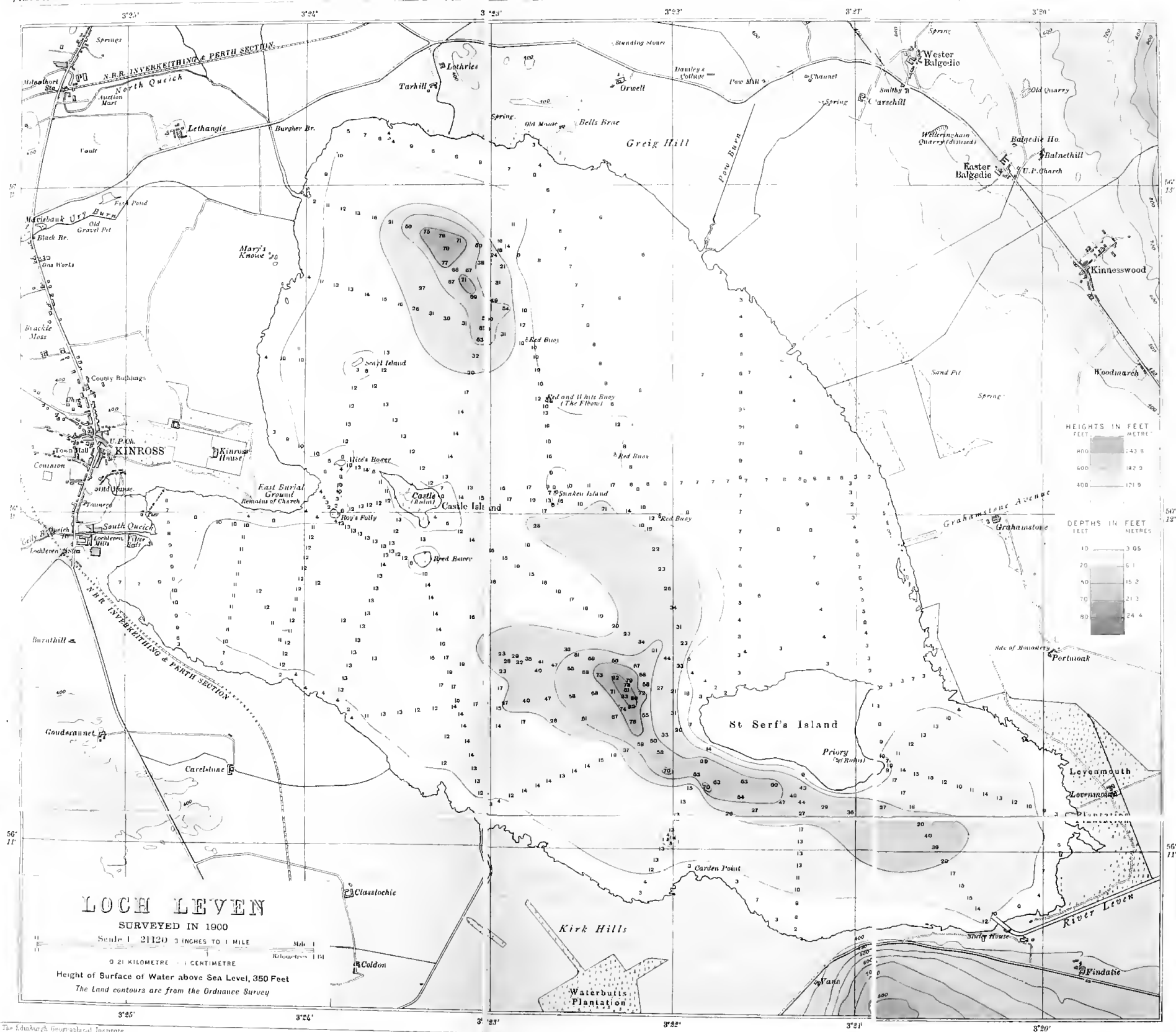
Scale 1:21120 3 INCHES TO 1 MILE
 0 21 KILOMETRE — 1 CENTIMETRE

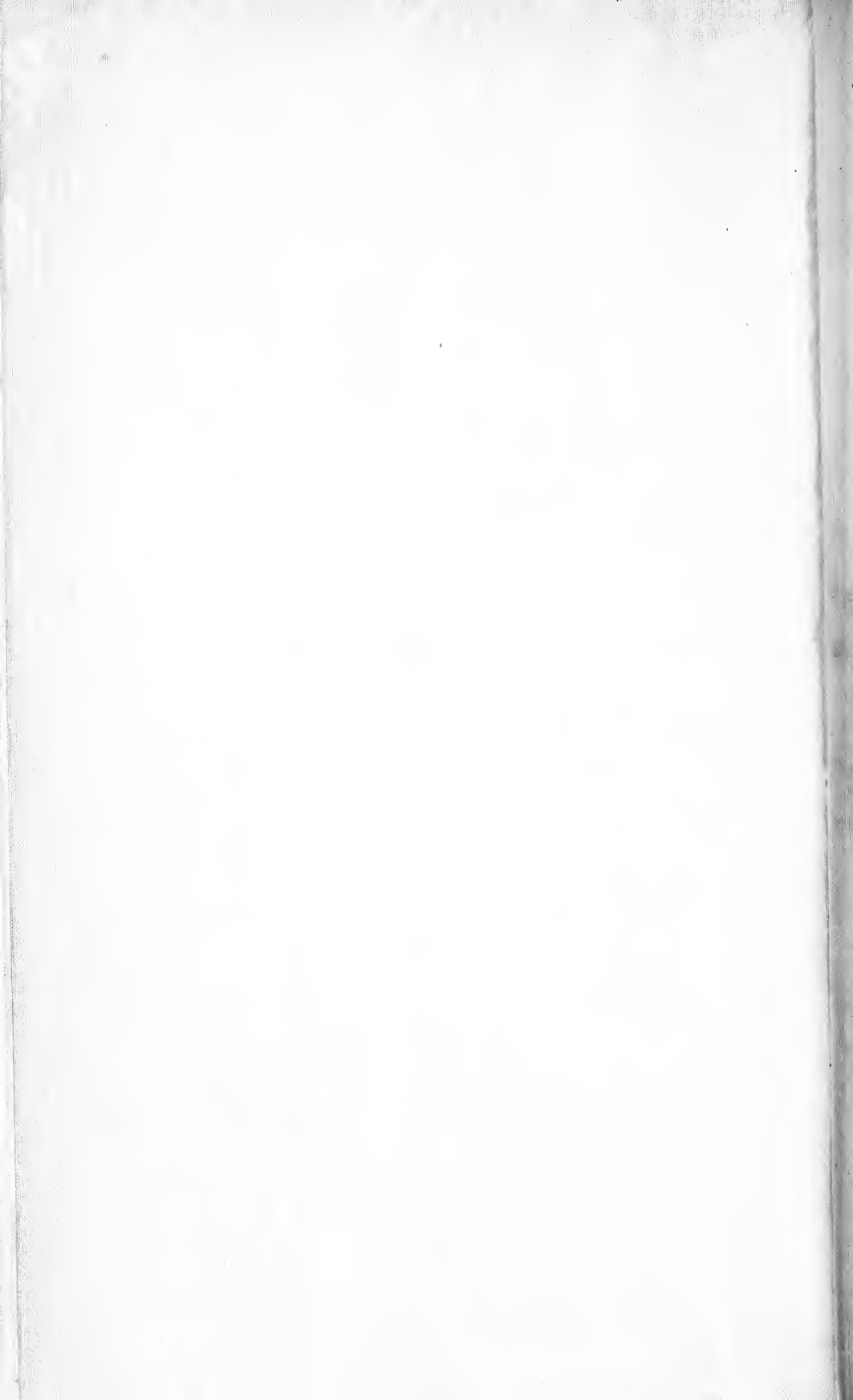
J.D. Bartholomew

3°20'



BY SIR JOHN MURRAY, K.C.B., LL.D., F.R.S., AND FRED. P. PULLAR, F.R.G.S.

~~HTFHT~~



CH

EIGHTS IN
FEET

3250
3000
2750
2500
2250
2000
1750
1500
1250

DEPTH IN
FEET

50
100
200
300
400
500



BY SIR JOHN MURRAY, K.C.B., LL.D., F.R.S., AND FRED P. PULLAR, F.R.G.S.

LOWER SECTION

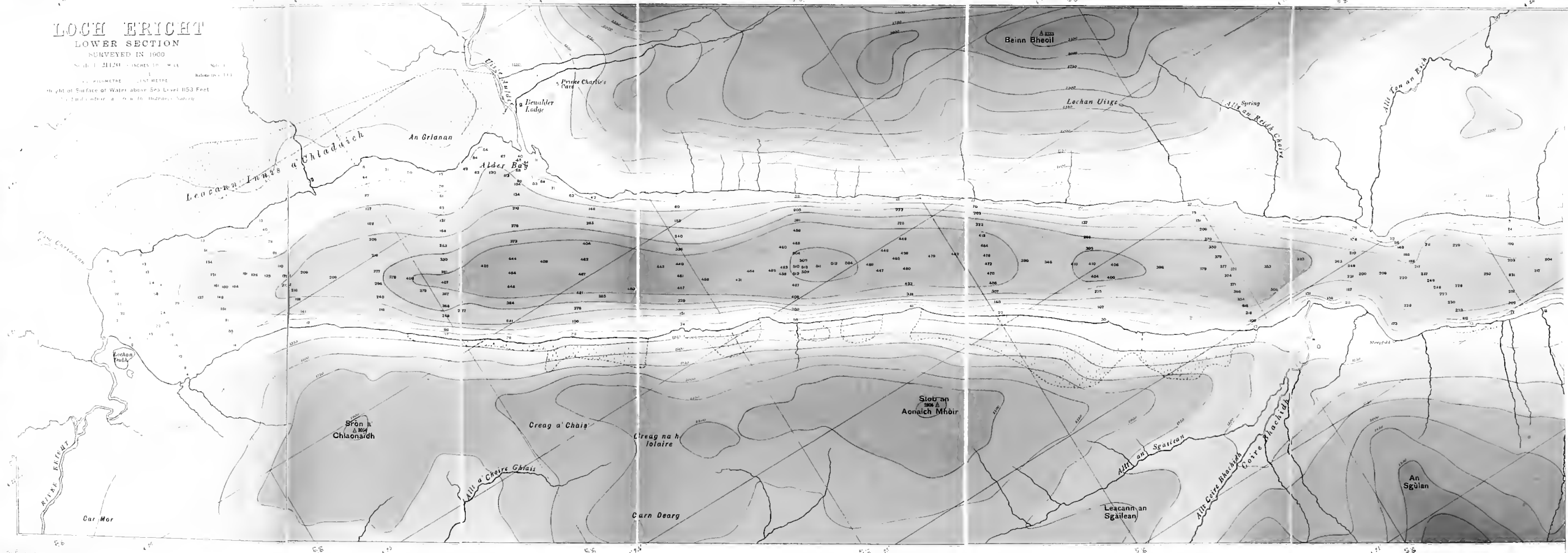
SURVEYED IN 1900

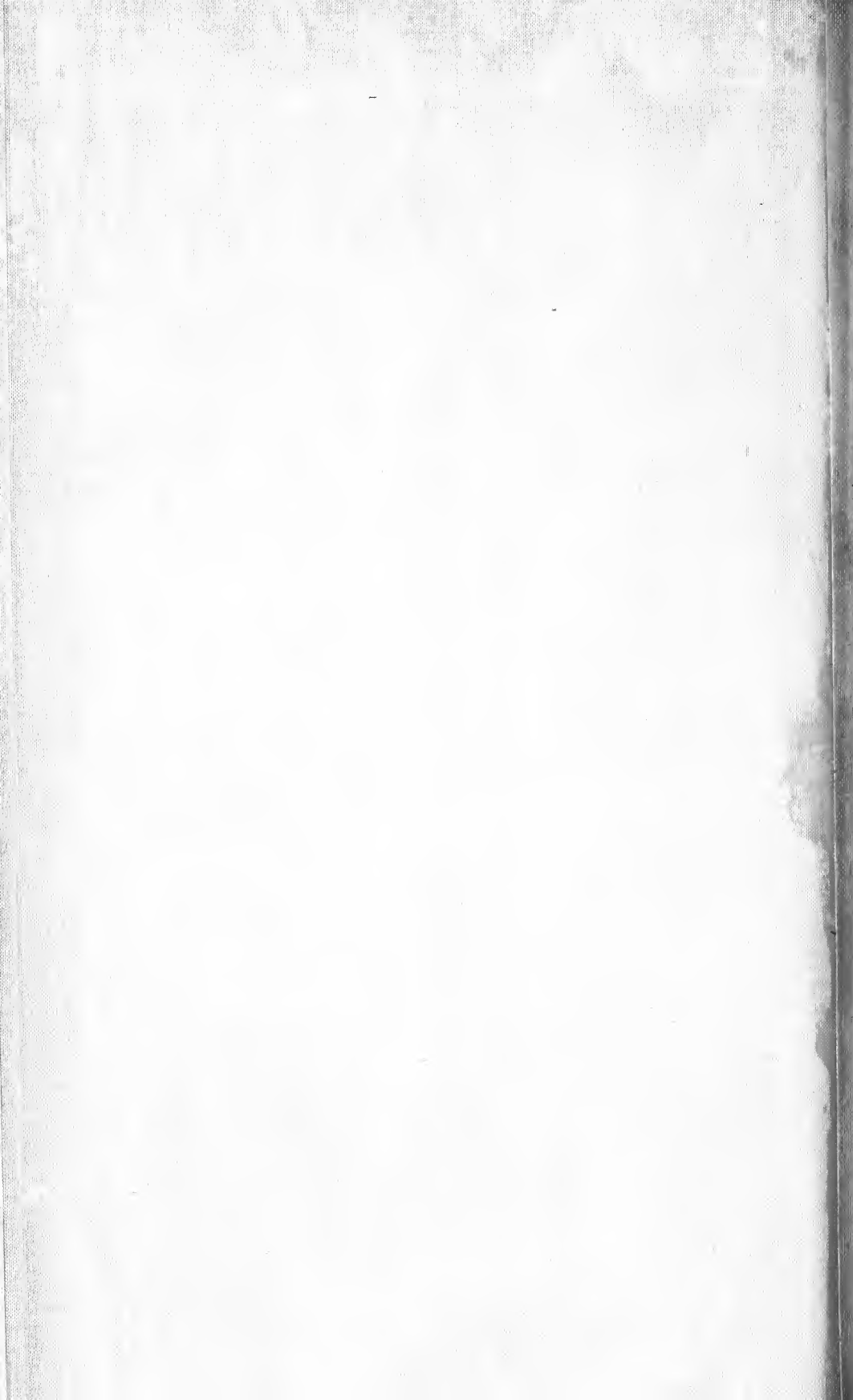
SOUTH 2120 INCHES TO 4000

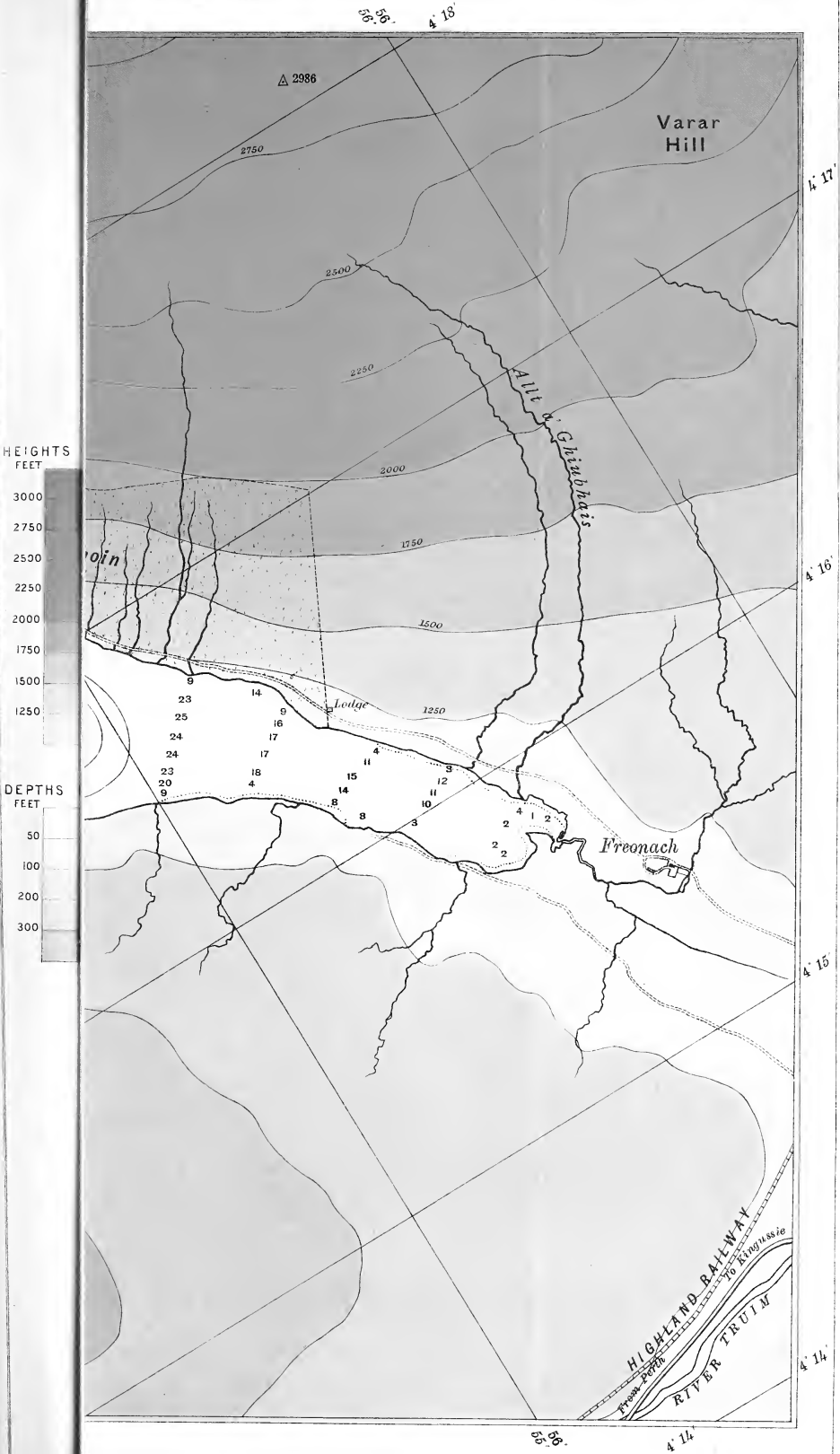
bioRxiv preprint doi: <https://doi.org/10.1101/111111>; this version posted November 1, 2016. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

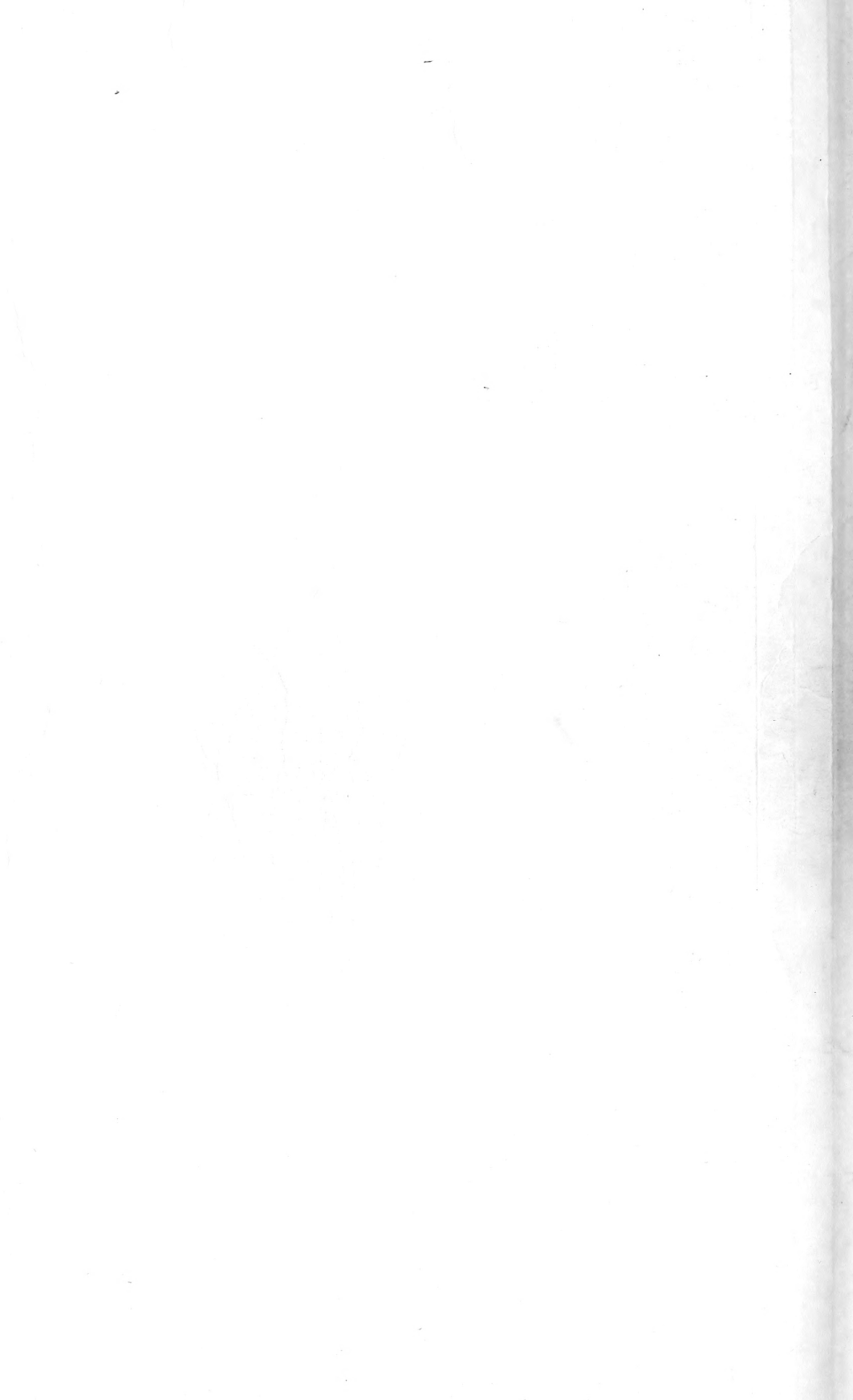
REPRODUCED BY THE

Height of Surface of Water above Sea Level 1153 Feet

$$s_{i+1} = \frac{1}{2} \| \mathbf{u}_i \|_2 + \max \{ \mathbf{u}_i^T \mathbf{e}_i, 0 \} \quad \text{for } i = 1, \dots, n-1, \quad \mathbf{u}_n = \frac{1}{2} \| \mathbf{u}_n \|_2 + \mathbf{u}_n^T \mathbf{p}(\mathbf{u}_n) + \mathbf{u}_n^T \mathbf{e}_n$$








BY SIR JOHN MURRAY, KCB, LL.D., F.R.S., AND FRED P. PULLAR, F.R.G.S.

LOCH ERICHT

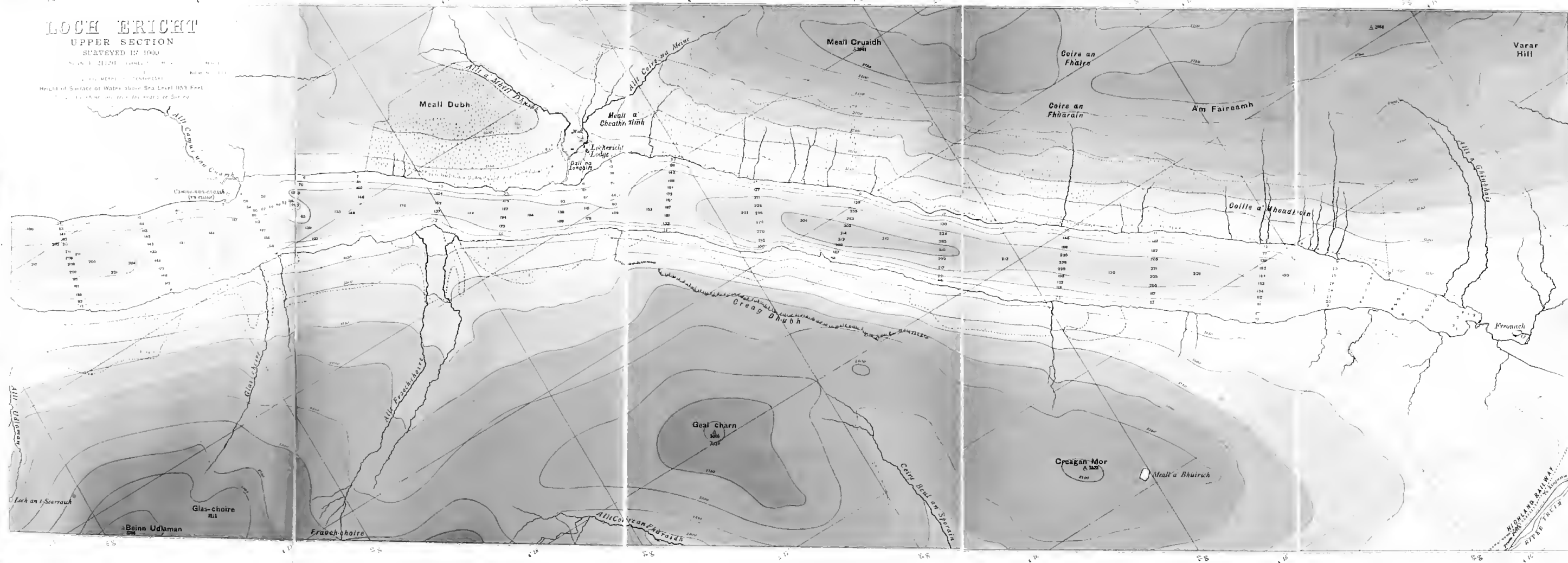
UPPER SECTION

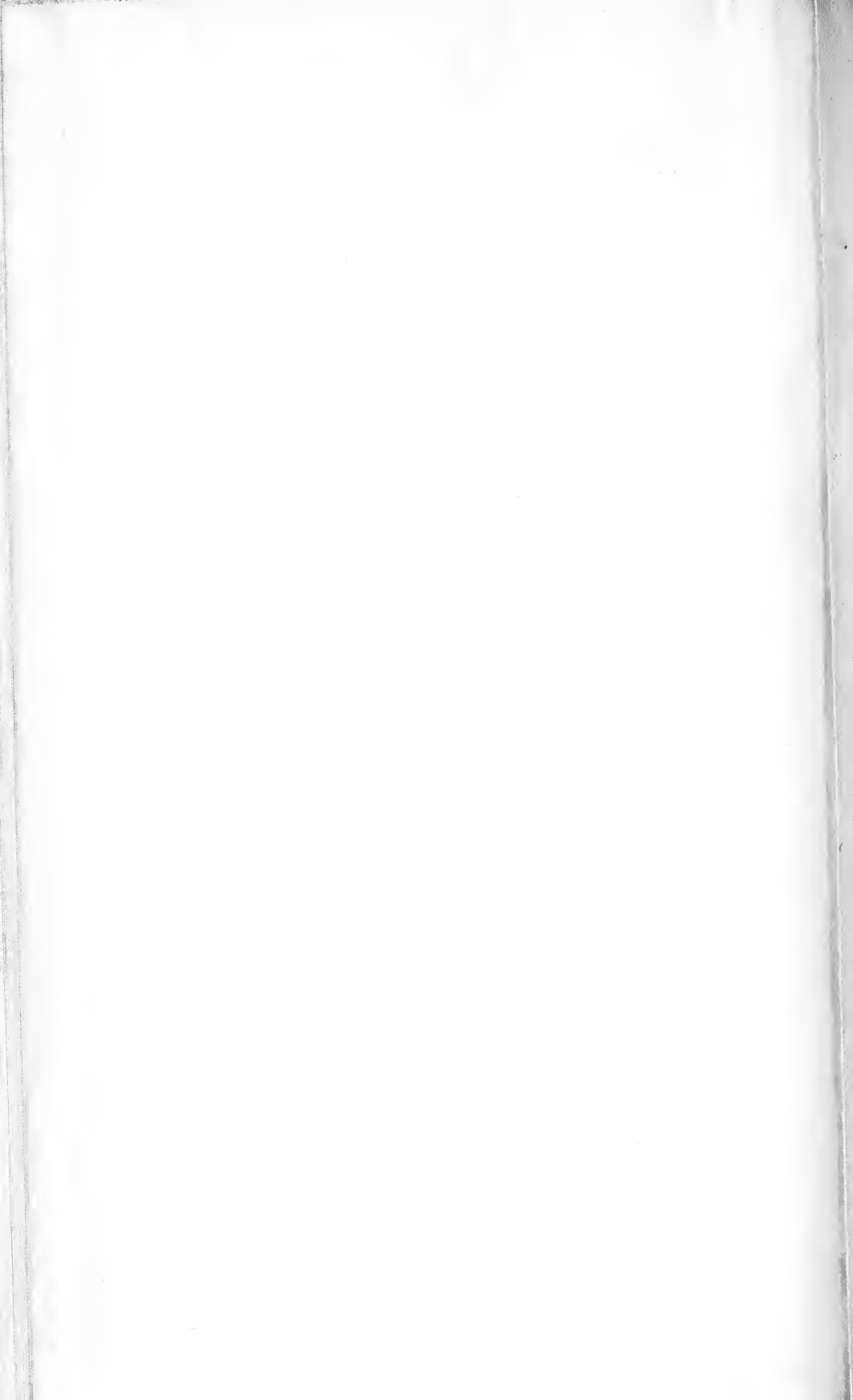
SURVEYED IN 1990

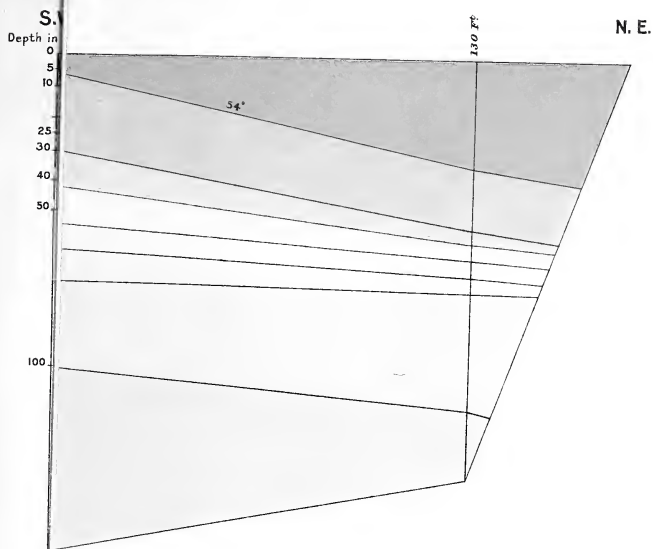
$$s_1, s_2 \in \mathbb{Z}[1, 2] \quad \text{with } s_1 + s_2 = 0.$$

Height of Surface of Water above Sea Level 1153 Feet

• $f: \mathbb{R}^n \rightarrow \mathbb{R}$ (or \mathbb{C}) is *convex* if $S_{f, \alpha}$ is







L SECTION

RIGHT

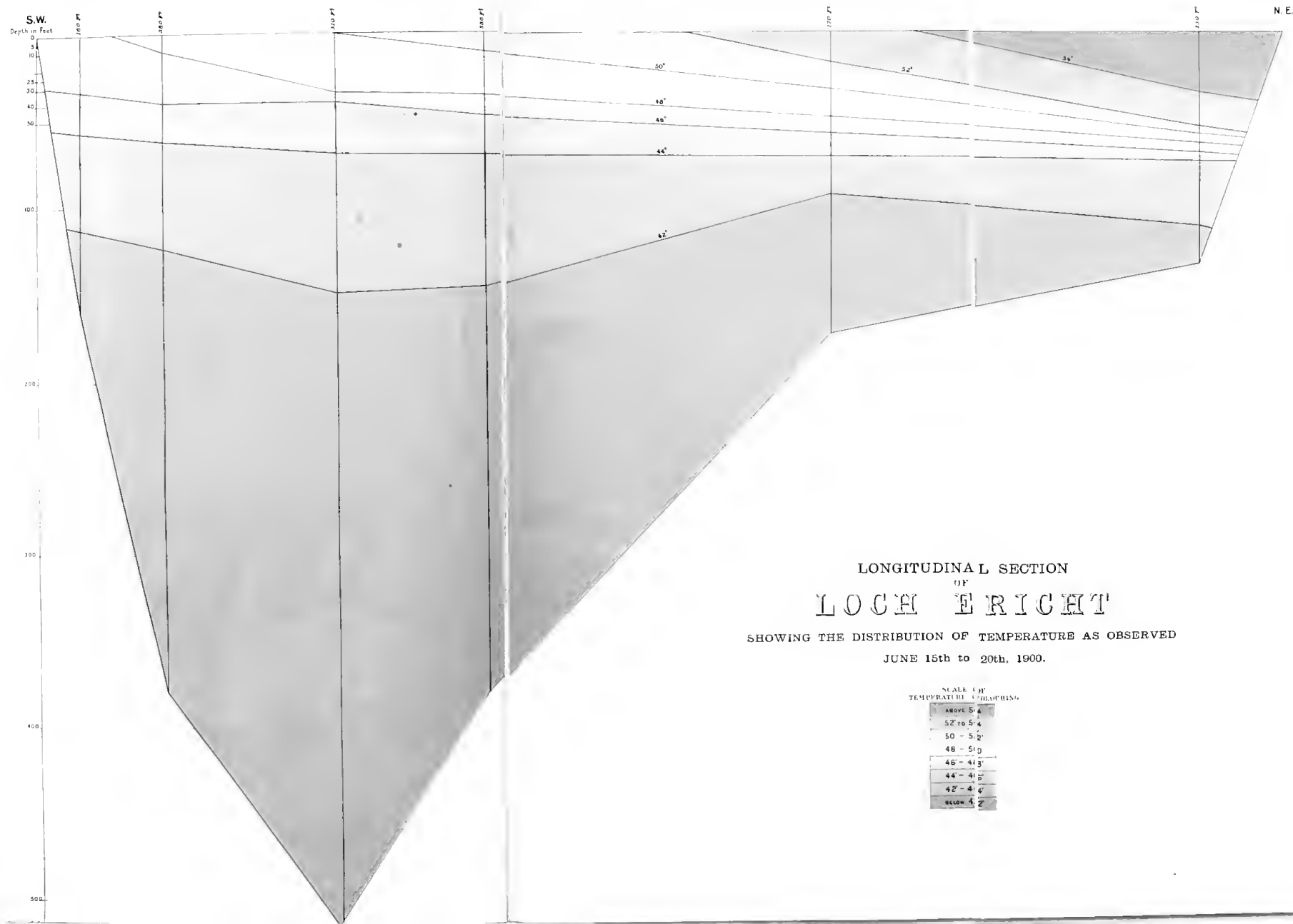
TEMPERATURE AS OBSERVED

20th, 1900.



BATHYMETRICAL SURVEY OF THE SCOTTISH LOCHS.

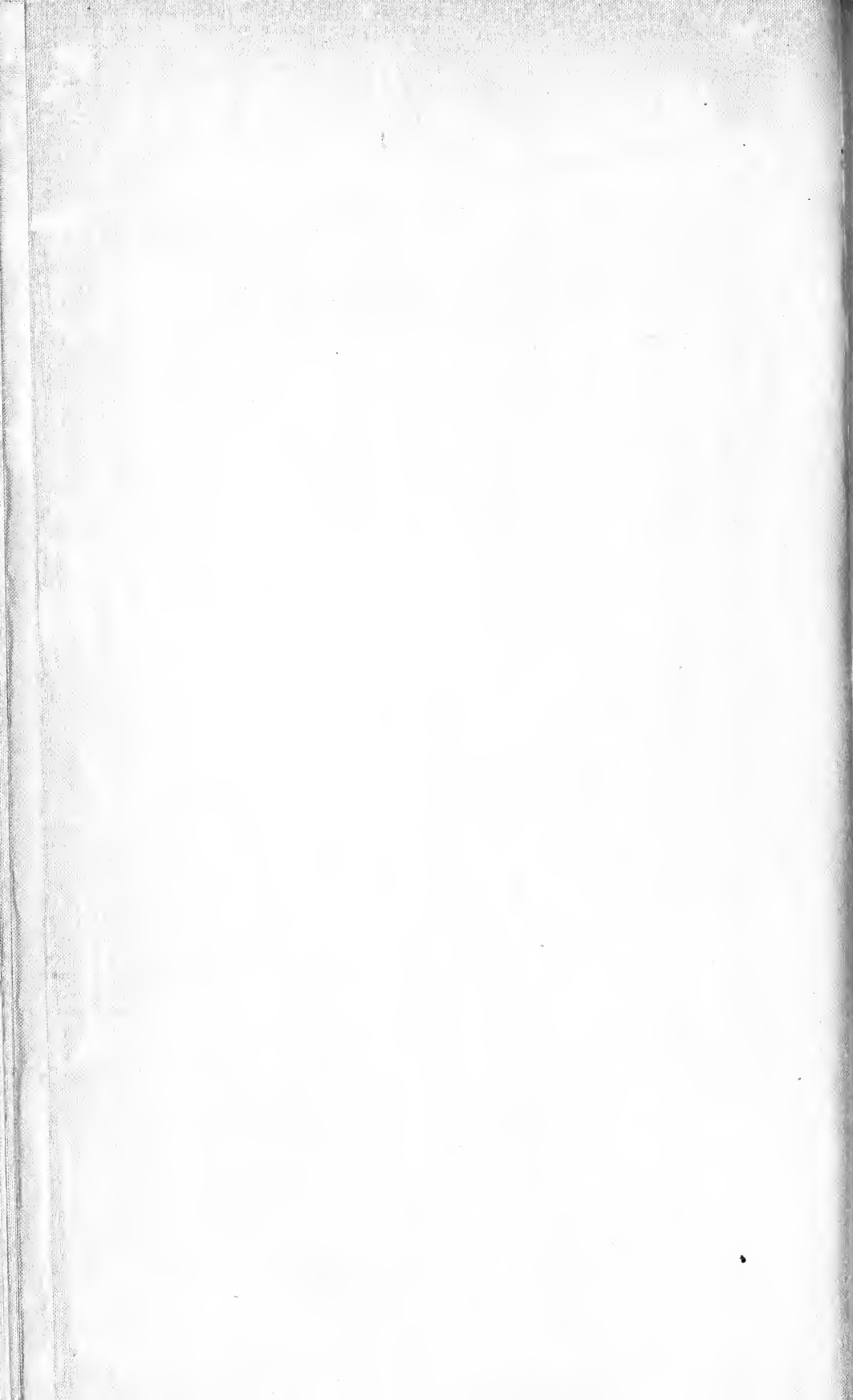
BY SIR JOHN MURRAY, K.C.B., LL.D., F.R.S. AND FRED. P. PULLAR, F.R.G.S.



LONGITUDINAL SECTION
OF
LOCH ERICHT
SHOWING THE DISTRIBUTION OF TEMPERATURE AS OBSERVED
JUNE 15th to 20th, 1900.

SCALE OF
TEMPERATURE (°FAHRENH.)

ABOVE 54°
52° to 54°
50° to 52°
48° to 50°
46° to 48°
44° to 46°
42° to 44°
BELOW 42°



BATHYMETRY

By SIR JOHN M

4° 16'

LOCH GARRY

SURVEYED IN 1900

Height of Surface of Water
above sea level, 1320 feet

The Land Contours are from the Ordnance S

56°
49'

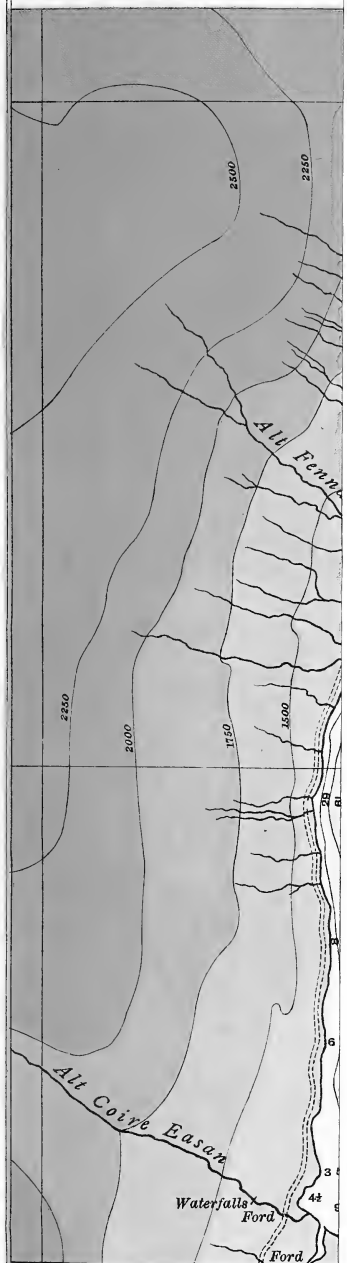
HEIGHTS IN FEET
FEET METRES

2500	762
2250	685.8
2000	609.6
1750	533.4
1500	457.2

DEPTHS IN FEET
FEET METRES

25	7.6
50	15.2
75	22.9
100	30.5

56°
48'

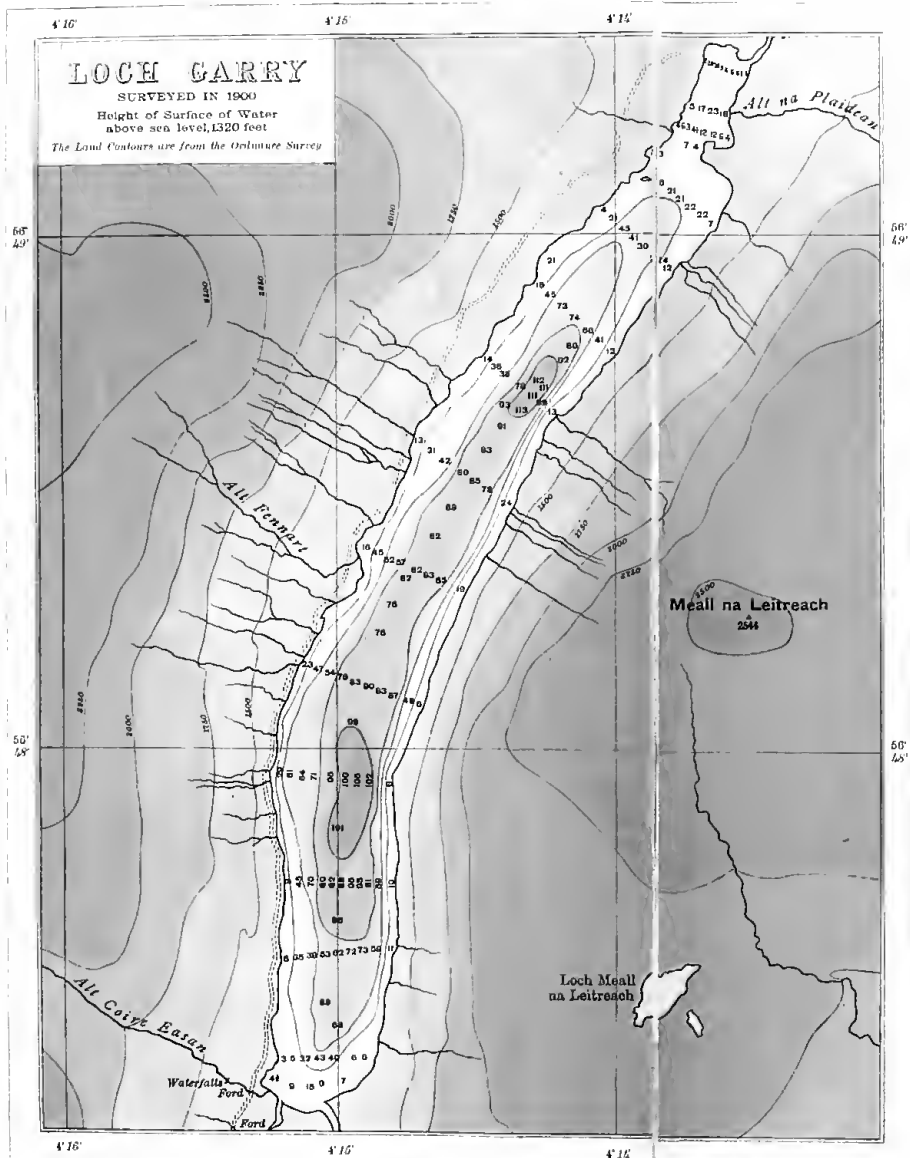


4° 16'

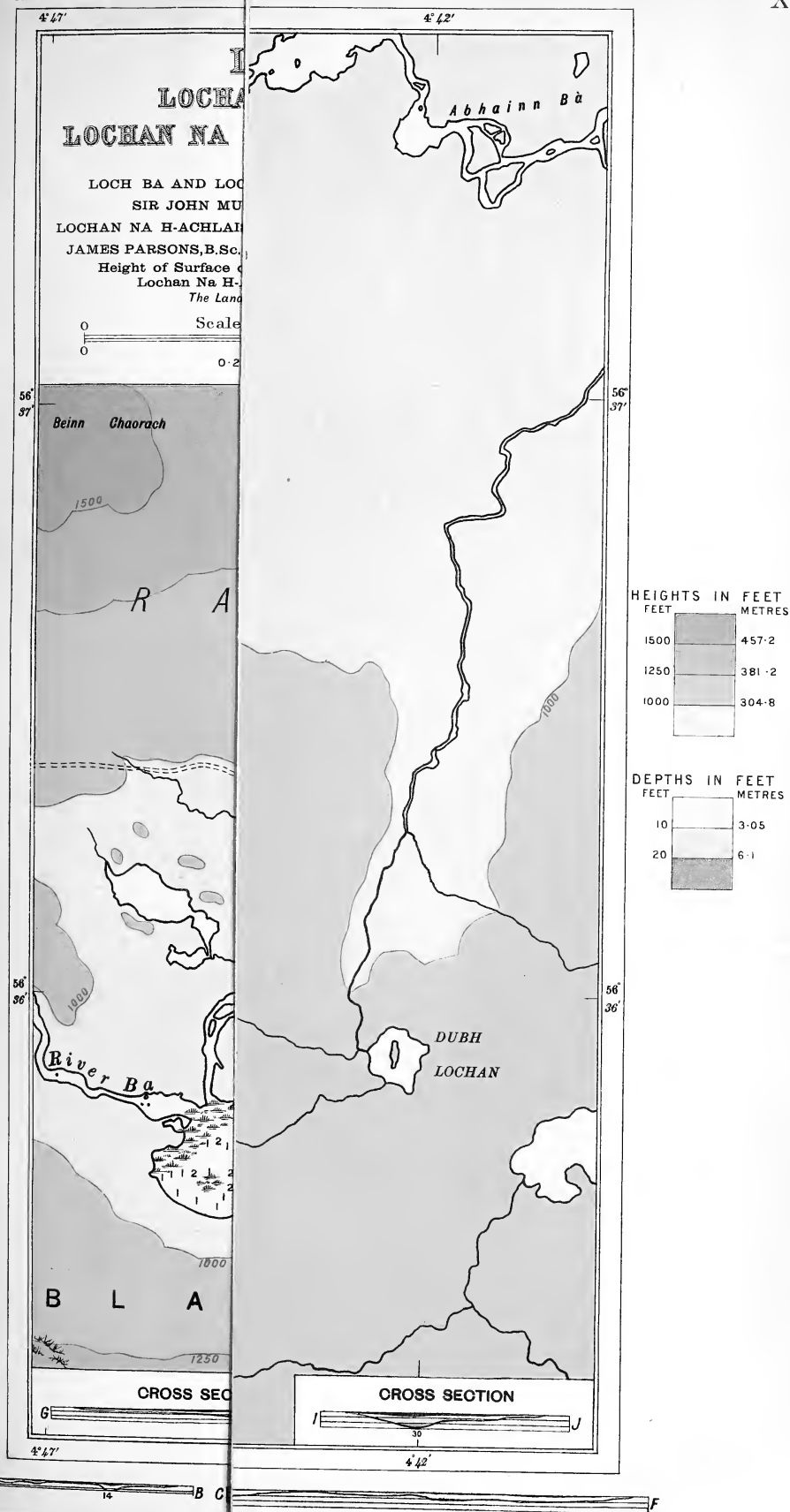


BATHYMETRICAL SURVEY OF THE SCOTTISH LOCHS.

BY SIR JOHN MURRAY, K.C.B., LL.D., F.R.S., AND FRED. P. PULLAR, F.R.G.S.







LOCH BÀ

LOCHAN NA H-ACHLAISE

LOCHAN NA STAINGE & LOCH BUIDHE

(TAY BASIN)

LOCH BÀ AND LOCHAN NA STAINGE SURVEYED IN 1902 BY

SIR JOHN MURRAY AND T. N. JOHNSTON, M.B., O.M.

LOCHAN NA H-ACHLAISE AND LOCH BUIDHE SURVEYED IN 1902 BY

JAMES PARSONS, B.Sc., R. M. CLARK, B.Sc., AND D. C. MINTOSH, M.A.

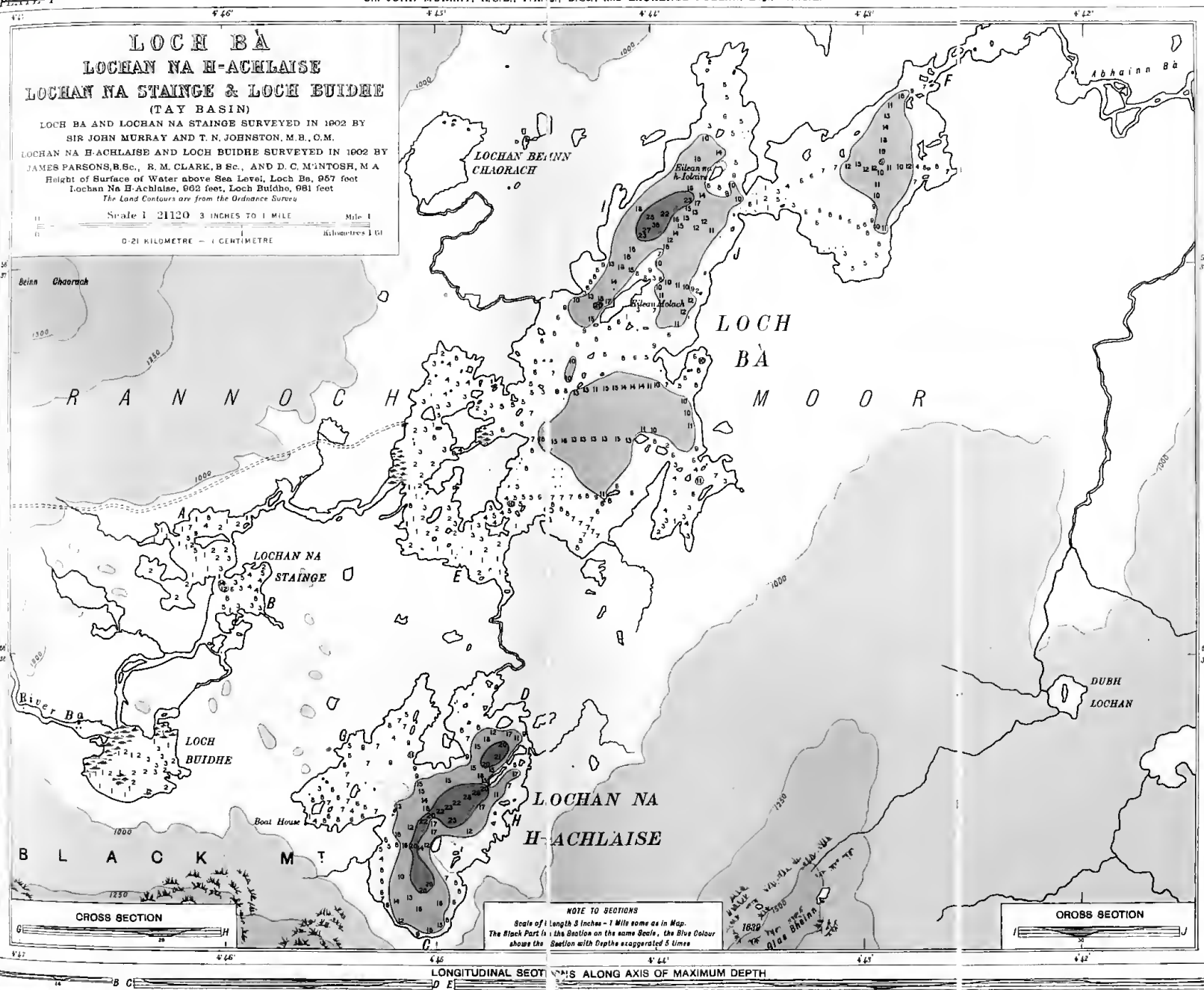
Height of Surface of Water above Sea Level, Loch Bà, 957 feet

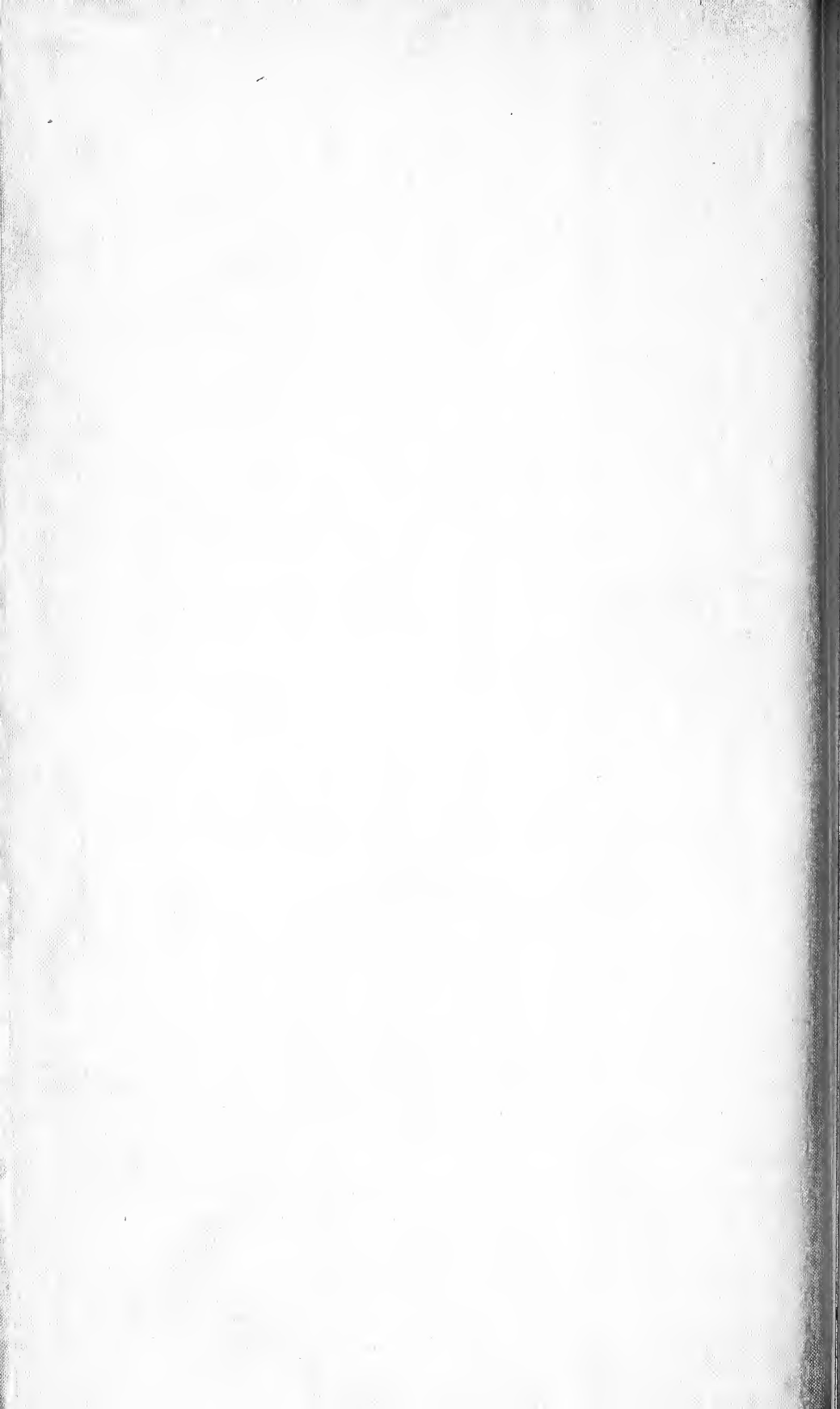
Lochan Na H-Achlaise, 962 feet, Loch Buidhe, 981 feet

The Land Contours are from the Ordnance Survey

Scale 1:21120 3 INCHES TO 1 MILE

0.21 KILOMETRE — 1 CENTIMETRE





AR, Esq., F.R.S.E.



M DEPTH

BATHYMETRICAL SURVEY OF THE FRESH-WATER LOCHS OF SCOTLAND

UNDER THE DIRECTION OF

SIR JOHN MURRAY, K.C.B., F.R.S., D.Sc., AND LAURENCE PULLAR, ESQ., F.R.S.E.

H. 1111. H

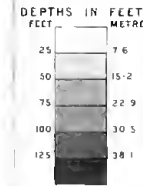
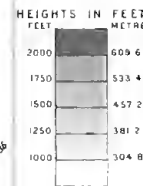
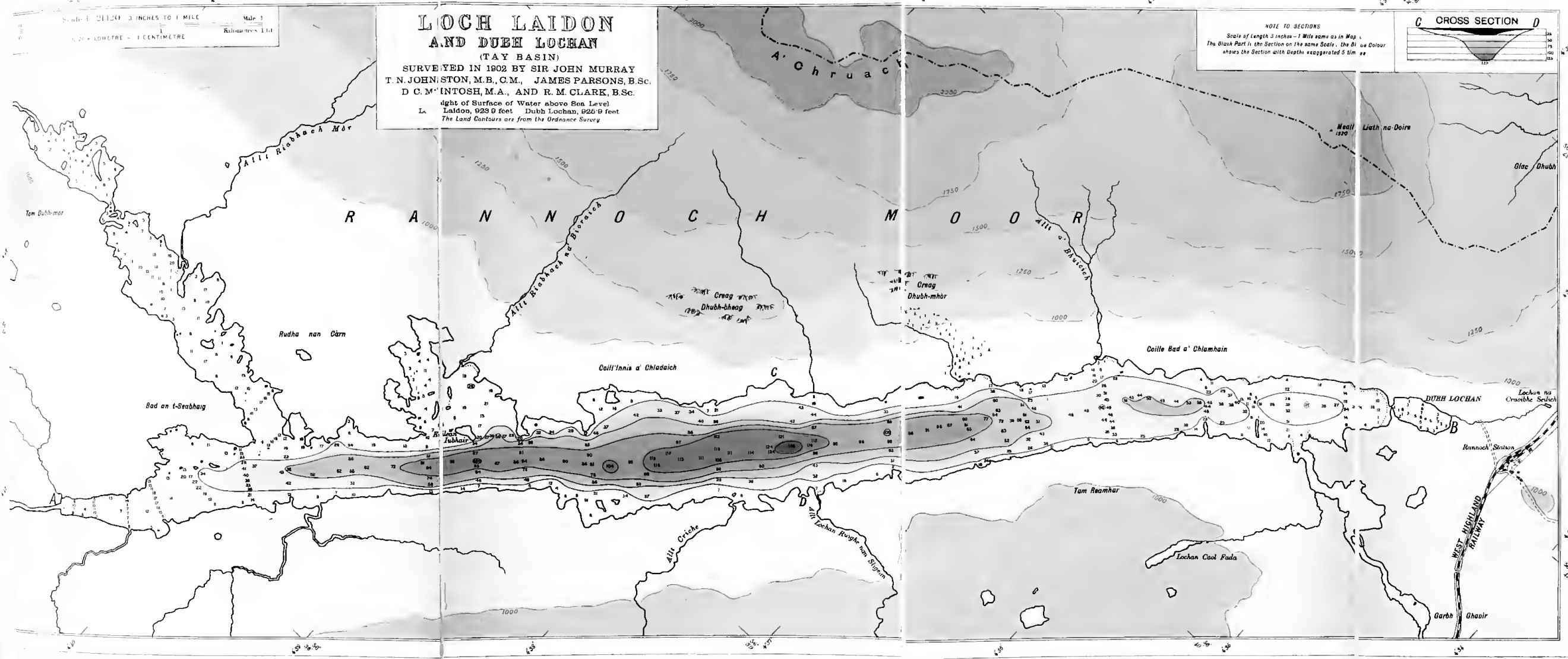
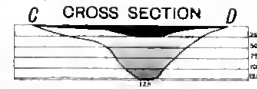
Scale 1:25,000 3 INCHES TO 1 MILE
1:25,000 3 CENTIMETRE - 1 CENTIMETRE

LOCH LAIDON AND DUBH LOCHAN (TAY BASIN)

SURVEYED IN 1902 BY SIR JOHN MURRAY
T. N. JOHNSTON, M.B., C.M., JAMES PARSONS, B.Sc.
D. C. MINTOSH, M.A., AND R. M. CLARK, B.Sc.

Height of Surface of Water above Sea Level
Laidon, 928.9 feet Dubh Lochan, 926.9 feet
The Land Contours are from the Ordnance Survey

NOTE TO SECTIONS
Scale of Length 3 inches = 1 Mile same as in Map.
The Black Part in the Section on the same Scale, the Blue Colour
shows the Section with Depth exaggerated 5 times



LONGITUDINAL SECTION ALONG AXIS OF MAXIMUM DEPTH

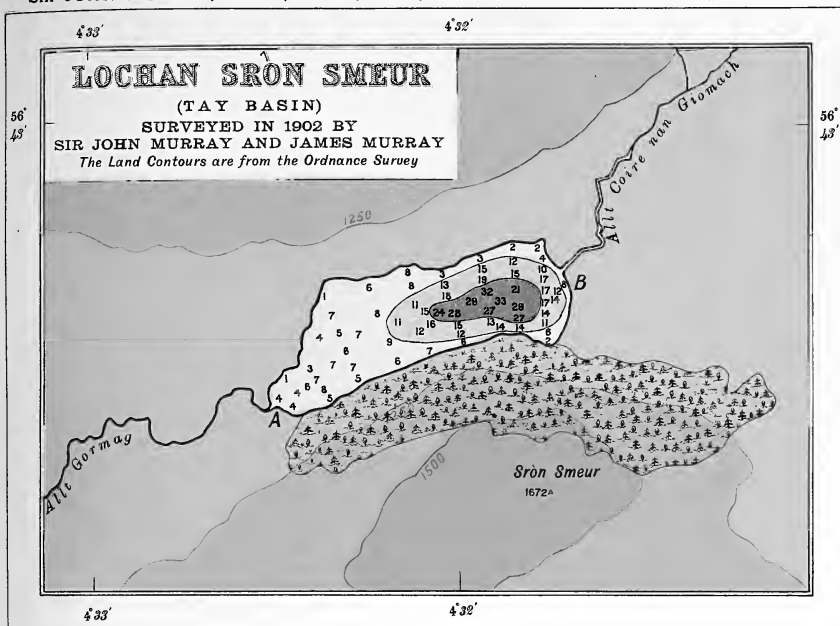


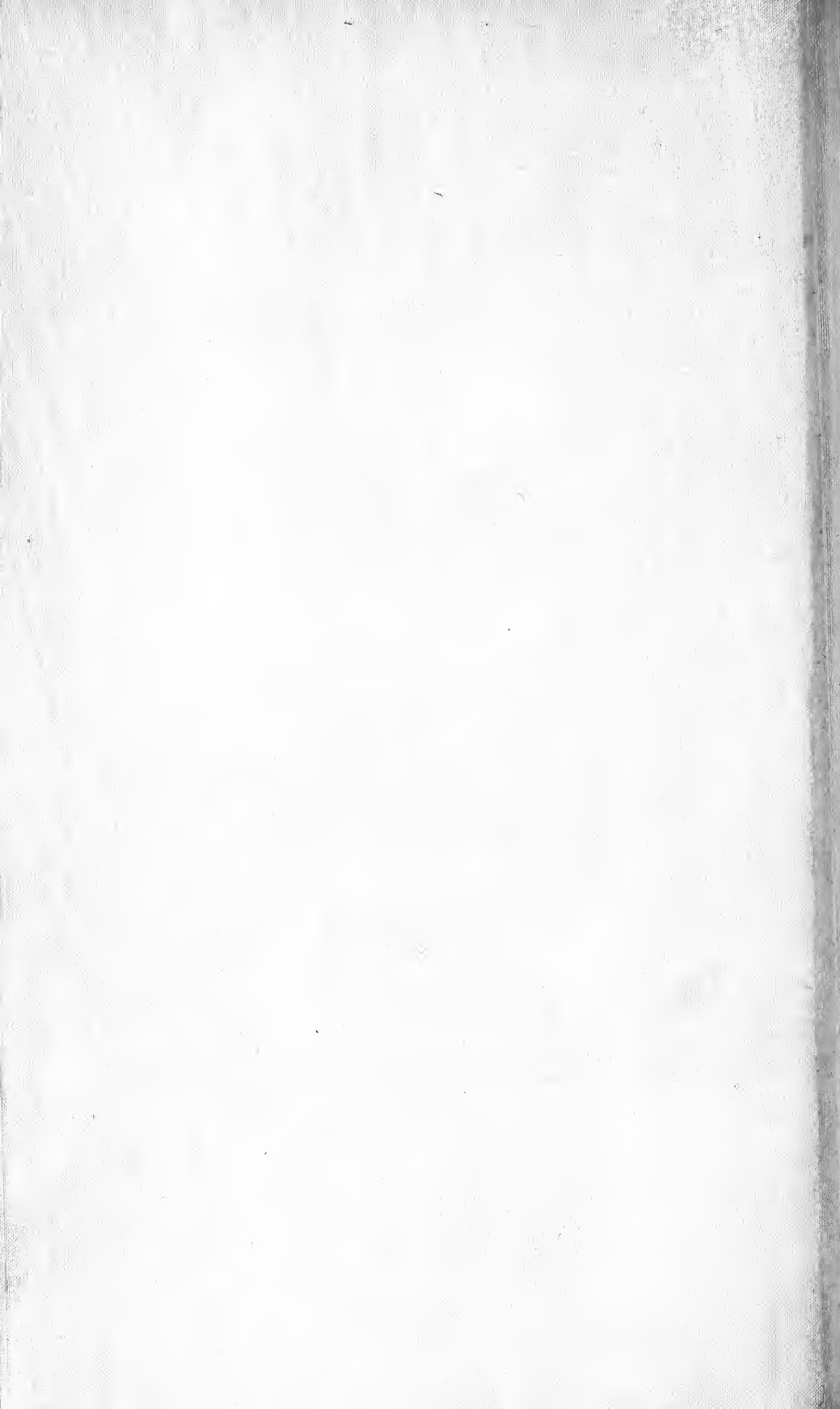
BATHYMETRICAL SURVEY OF THE LOCHS OF SCOTLAND

UNDER THE DIRECTION OF

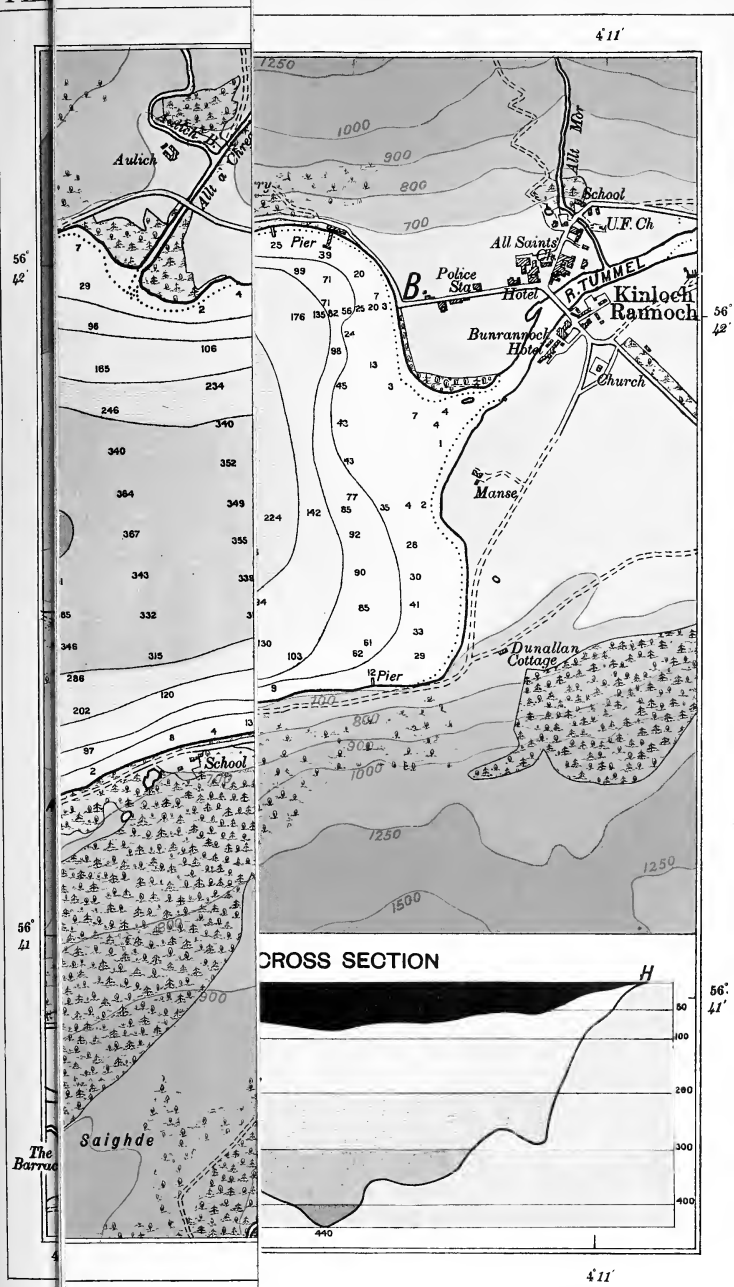
SIR JOHN MURRAY, K.C.B., F.R.S., D.Sc., AND LAURENCE PULLAR, Esq., F.R.S.E.

XVIII.

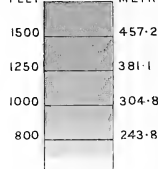




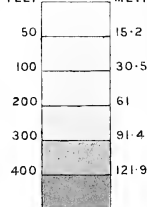
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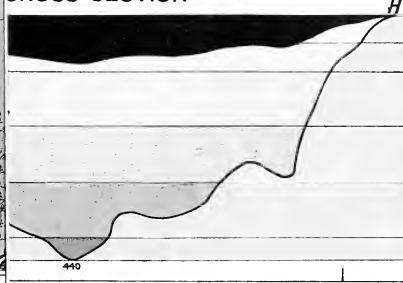
HEIGHTS IN FEET
METRES



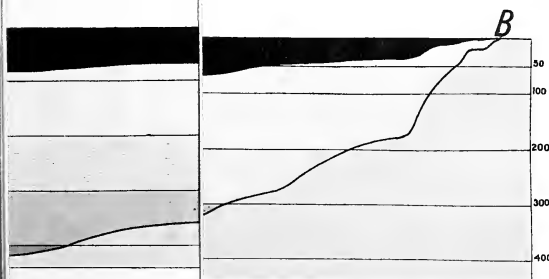
DEPTHS IN FEET
METRES



CROSS SECTION



4° 11'



BATHYMETRICAL SURVEY OF THE FRESH-WATER LOCHS OF SCOTLAND

XIX.

UNDER THE DIRECTION OF
SIR JOHN MURRAY, K.C.B., F.R.S., D.Sc., AND LAURENCE PULLAR, Esq., F.R.S.E.

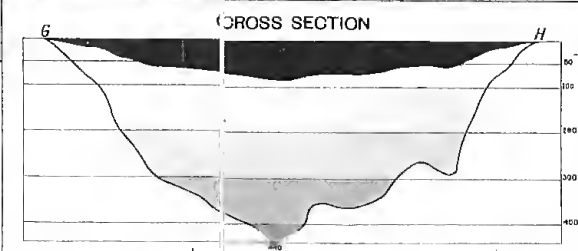
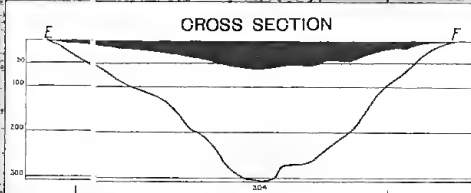
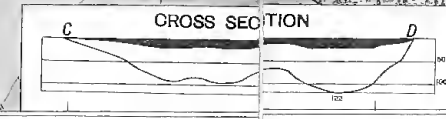
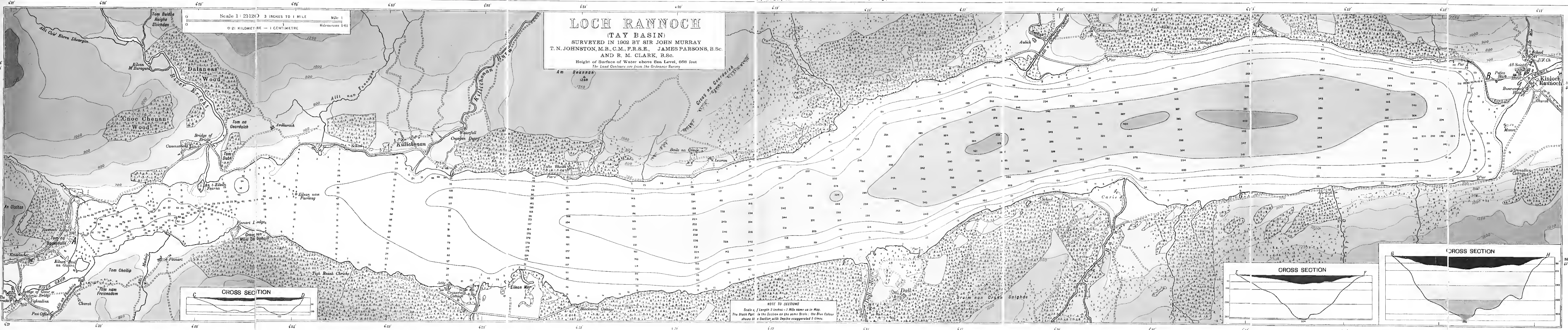
LOCH RANNOCH

(TAY BASIN)

SURVEYED IN 1902 BY SIR JOHN MURRAY
T. N. JOHNSTON, M.B., C.M., F.R.S.E., JAMES PARSONS, B.Sc.
AND R. M. CLARK, B.Sc.

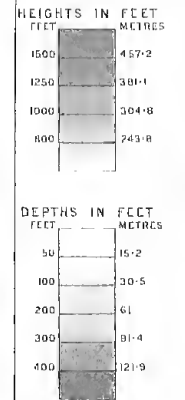
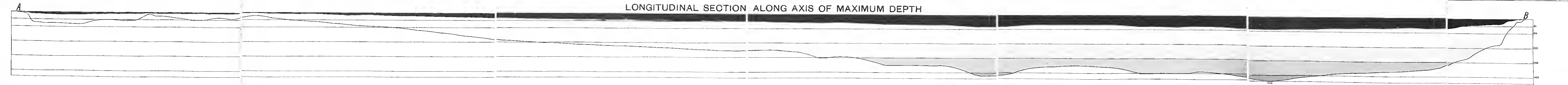
Height of Surface of Water above Sea Level, 668 feet
The Land Contours are from the Ordnance Survey

Scale 1: 211200 3 INCHES TO 1 MILE
0.21 KILOMETRE = 1 CENTIMETRE



NOTE TO SECTIONS
Scale of Length 3 inches = 1 Mile same as in Map.
The Black Part is the Section on the same Scale; the Blue Colour shows the Section with Depth exaggerated 5 times.

LONGITUDINAL SECTION ALONG AXIS OF MAXIMUM DEPTH



~~PLATE V~~

LOCHS DOCHART

SUR

T. N. JOHNSTON, M.A.

Height of Sur

Loch Dochart, 6

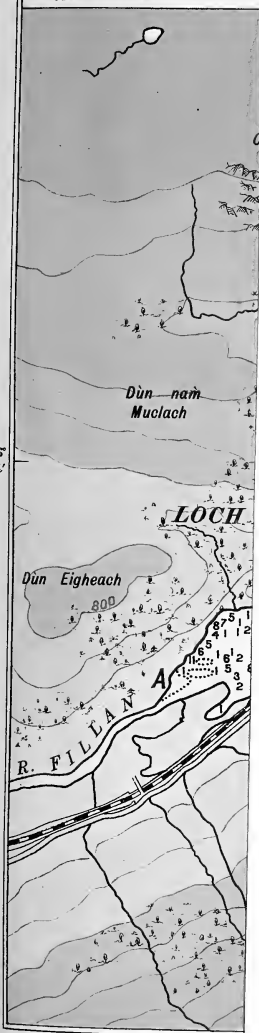
The Land Com

Scale 1 : 21

0-21 KILOM

NOTE TO SECTIONS

Scale of Length 3 inches = 1 Mile same as
 The Black Part is the Section on the sea
 the Blue Colour shows the Section with
 exaggerated 5 times.



A

BATHYMETRICAL SURVEY OF THE FRESH-WATER LOCHS OF SCOTLAND

UNDER THE DIRECTION OF

SIR JOHN MURRAY, K.C.B., F.R.S., D.Sc., AND LAURENCE PULLAR, Esq., F.R.S.E.

LOCHS DOCHART & IUBHAIR

(TAY BASIN)

SURVEYED IN 1003 BY

T N JOHNSTON, M.B., C.M., AND JAMES PARSONS, B.Sc.

Height of Surface of Water above Sea Level

Loch Dochart, 613 feet Loch Iubhair, 612 feet

The Land Contours are from the Ordnance Survey

Scale 1 21120 3 INCHES TO 1 MILE

Scale 1

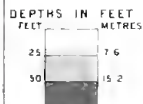
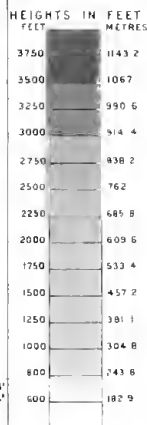
Kilometres 1 61

0 21 KILOMETRE — 1 CENTIMETRE

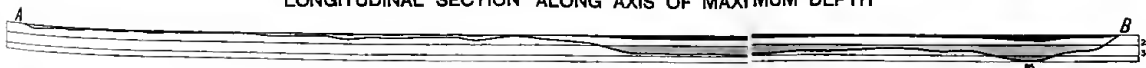
NOTE TO SECTIONS

Scale of length 3 inches = 1 Mile same as in Map
The Black Part in the Section on the same Scale,
the Blue Colour shows the Section with Depths
represented in Shading

CROSS SECTION



LONGITUDINAL SECTION ALONG AXIS OF MAXIMUM DEPTH



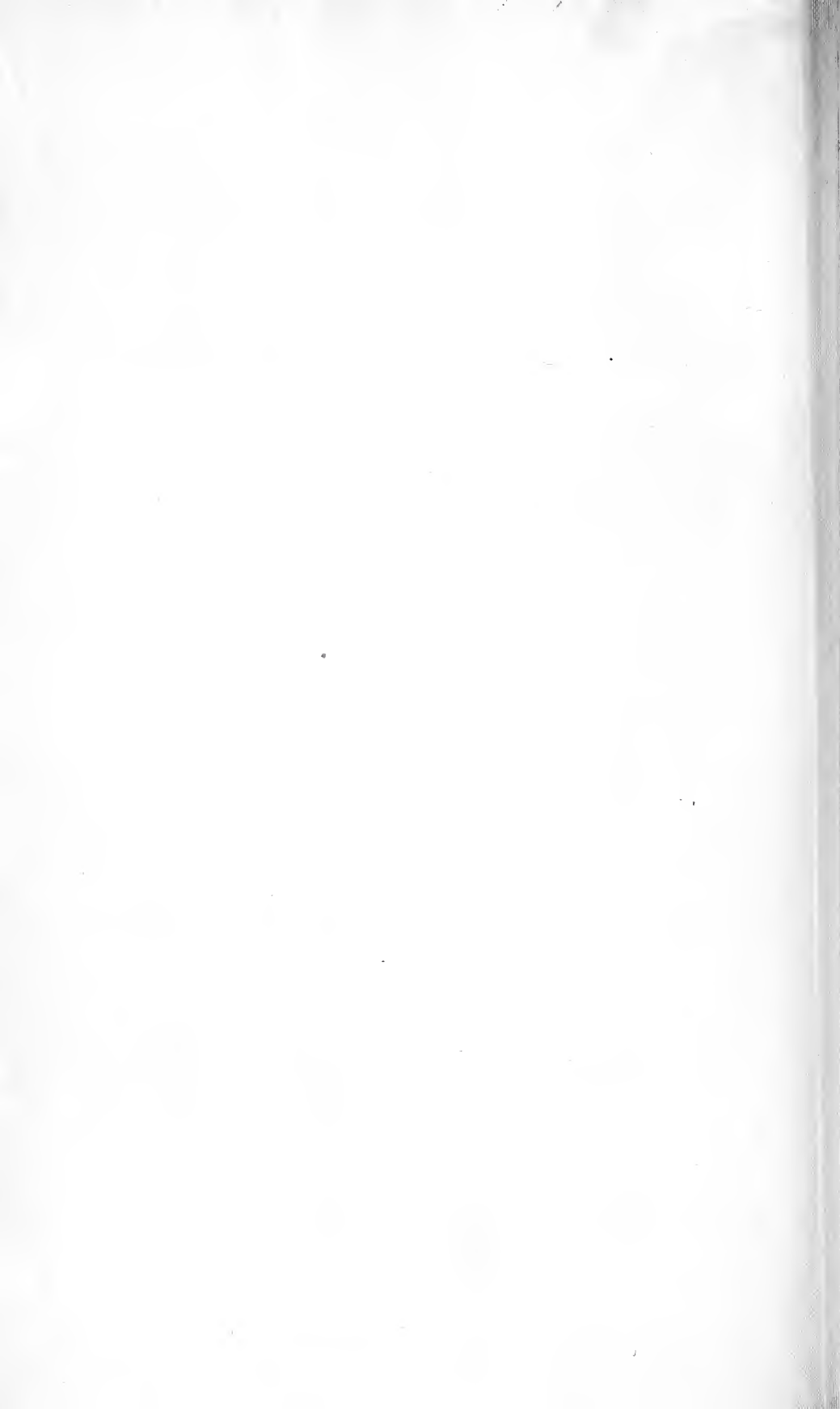


PLATE VI

4° 38'

LOC.

(TA

SURVEYED IN 19

T. N. JOHNS

JAMES

Height of

above Se

The Land Contours

56°
32'56°
31'

CROSS SECT

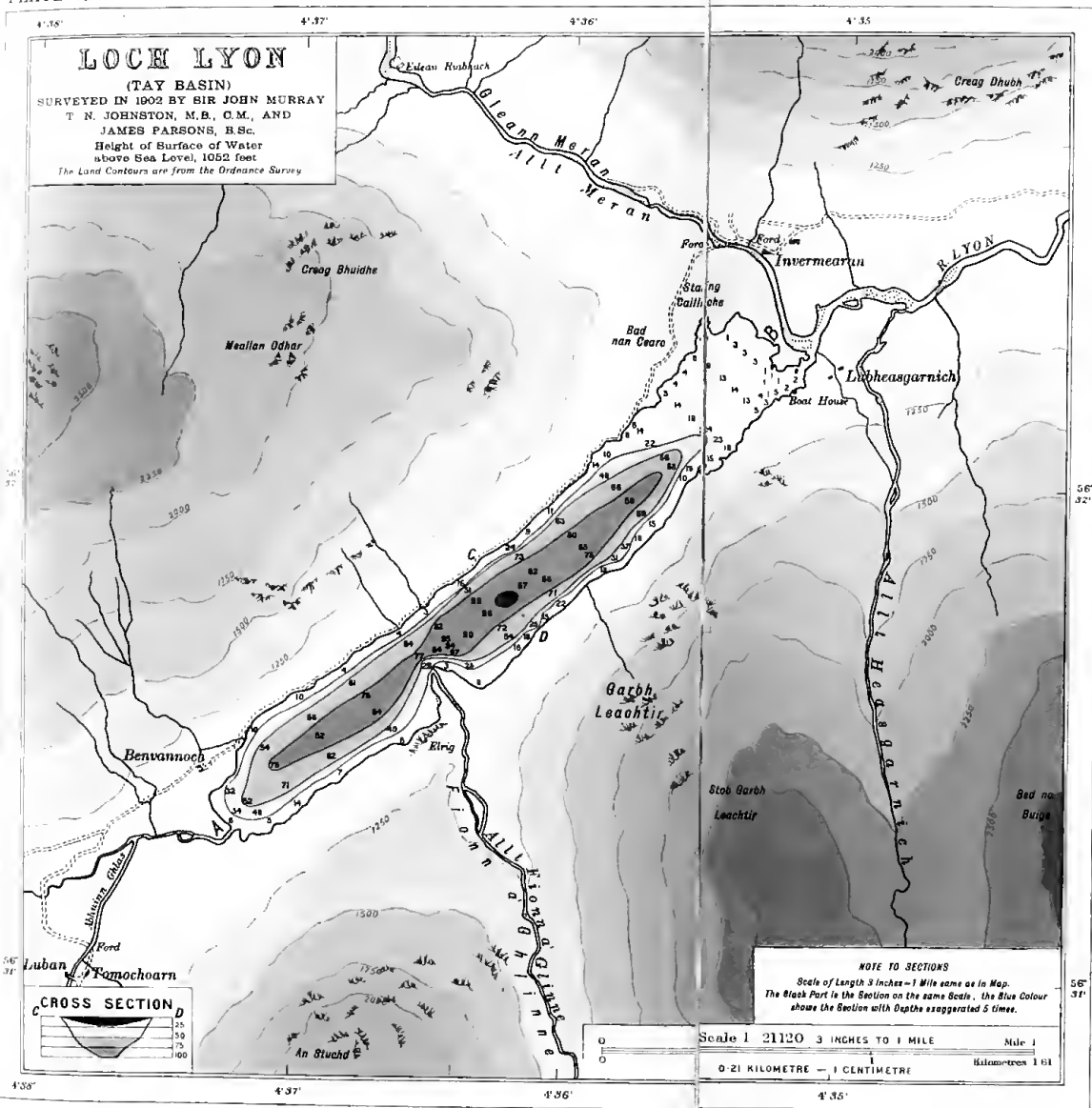
4° 38'

BATHYMETRICAL SURVEY OF THE FRESH-WATER LOCHS OF SCOTLAND

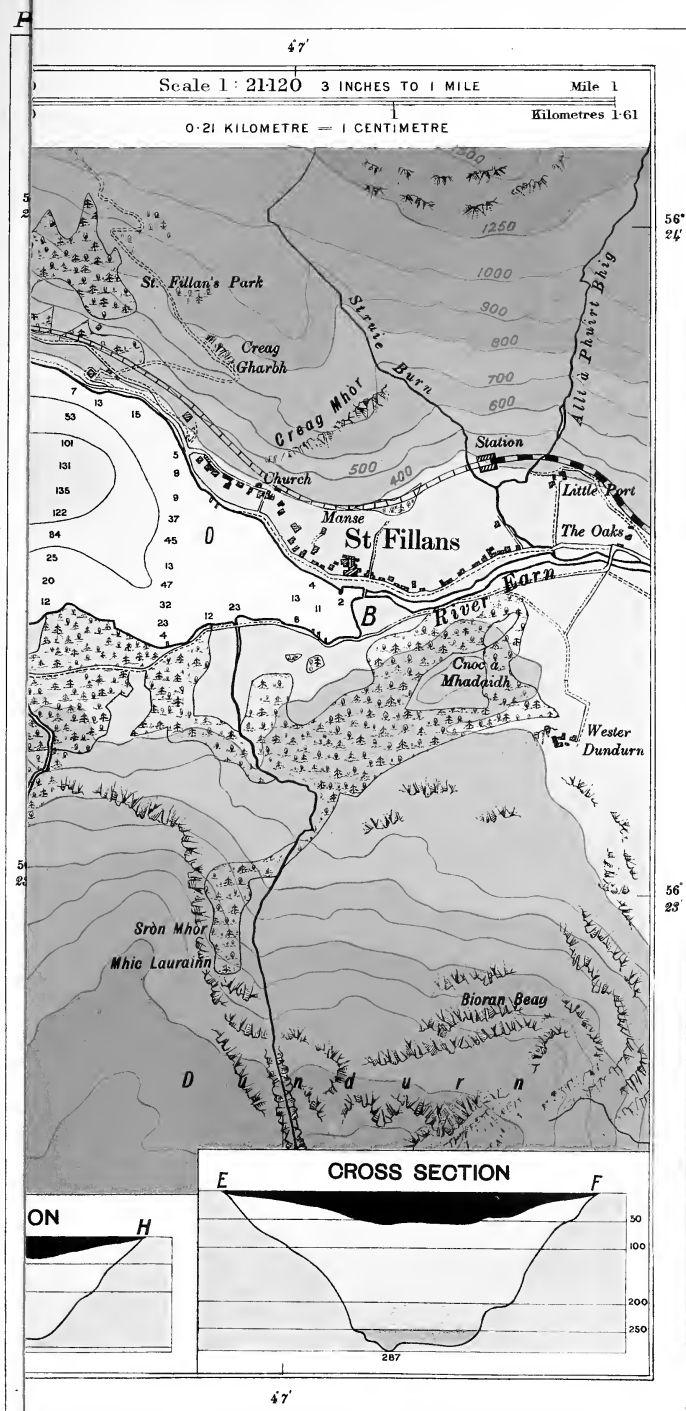
UNDER THE DIRECTION OF

SIR JOHN MURRAY, K.C.B., F.R.S., D.Sc., AND LAURENCE PULLAR, Esq., F.R.S.E.

MAP 17





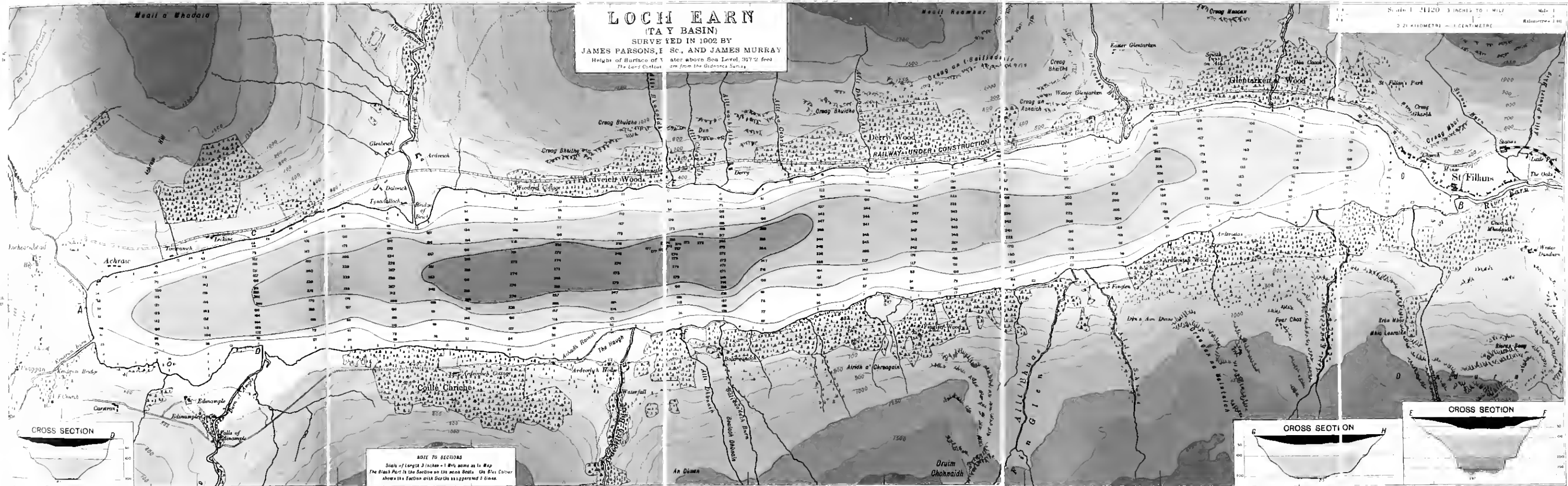


BATHYMETRICAL SURVEY OF THE FRESH-WATER LOCHS OF SCOTLAND

UNDER THE DIRECTION OF
SIR JOHN MURRAY, K.C.B., F.R.S., D.Sc., AND LAURENCE PULLAR, Esq., F.R.S.E.

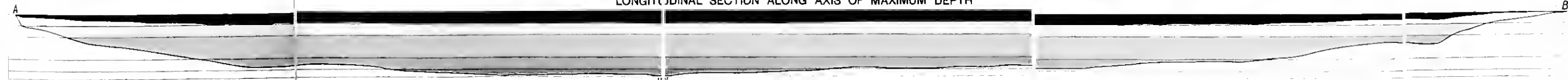
LOCH EARN (TA Y BASIN)

SURVEYED IN 1902 BY
JAMES PARSONS, Esq., AND JAMES MURRAY
Height of Surface of Loch above Sea Level, 317.2 feet
The Land Contour



NOTE TO SECTION
Scale of Length 3 inches = 1 mile same as in Map
The Black Part is the Section on the main Scale. The Blue Colour
shows the Section with Depth exaggerated 3 times.

LONGITUDINAL SECTION ALONG AXIS OF MAXIMUM DEPTH



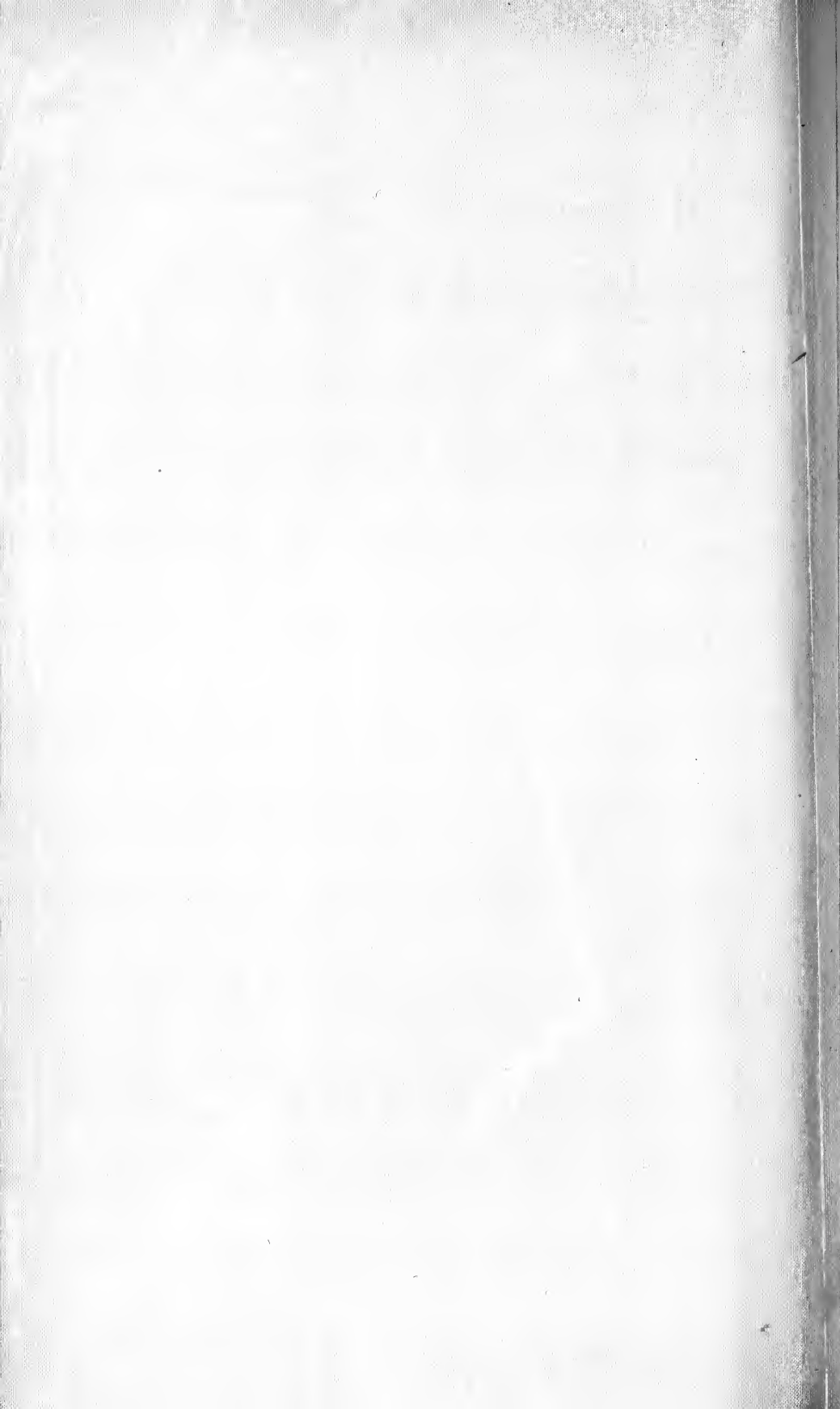
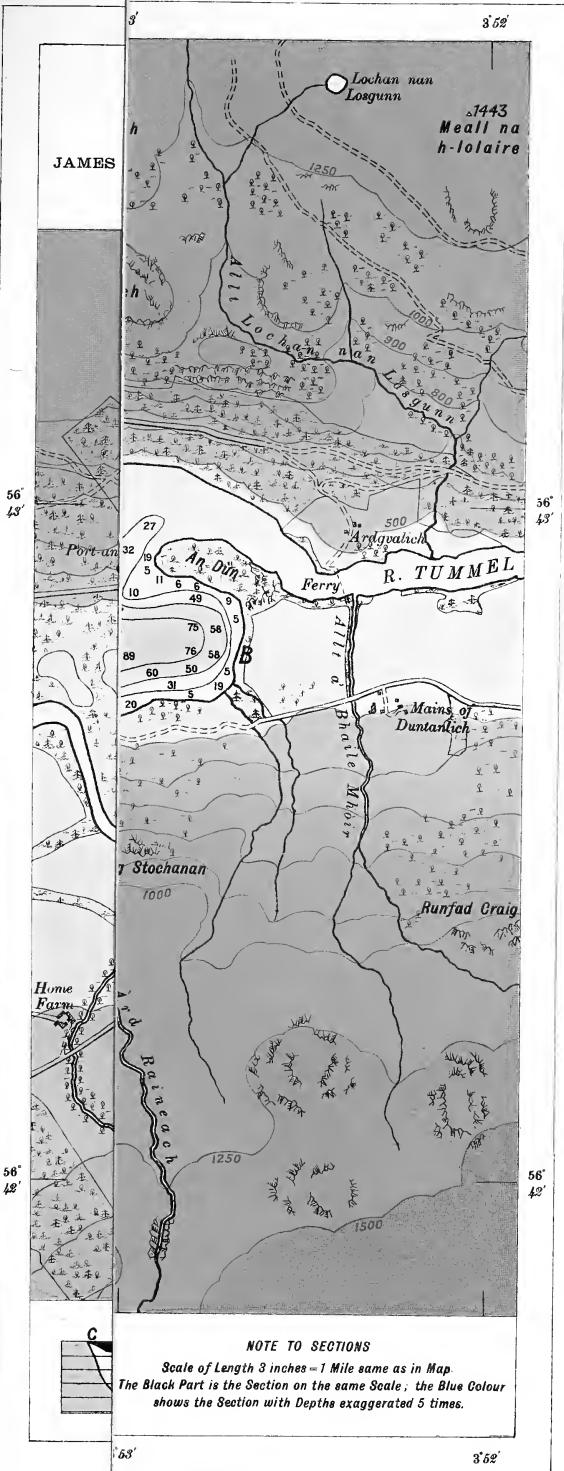


PLATE I



HEIGHTS IN FEET METRES

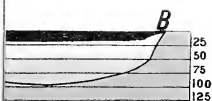
FEET	METRES
1500	457.2
1250	381.1
1000	304.8
900	274.3
800	243.8
700	213.4
600	182.9
500	152.4

DEPTHS IN FEET METRES

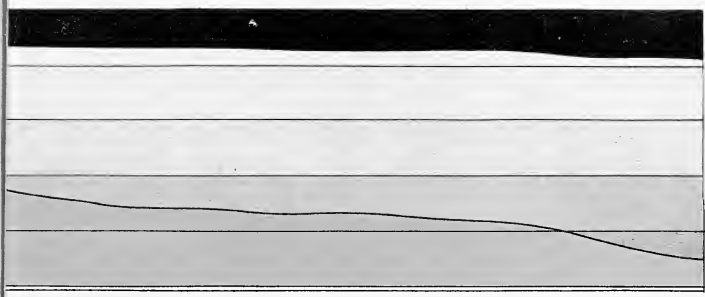
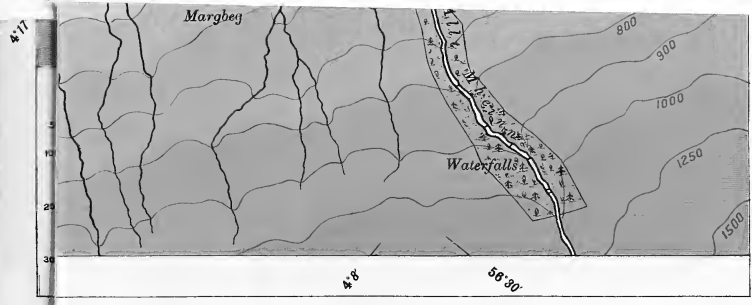
FEET	METRES
25	7.6
50	15.2
75	22.9
100	30.5
125	38.1

NOTE TO SECTIONS

Scale of Length 3 inches = 1 Mile same as in Map.
 The Black Part is the Section on the same Scale; the Blue Colour
 shows the Section with Depths exaggerated 5 times.







J. C. Bartholomew

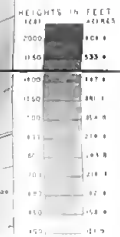
UNDER THE DIRECTION OF
SIR JOHN MURRAY, KCB, FRS, D.S., AND LAURENCE PULLAR, FRSE

UPPER SECTION

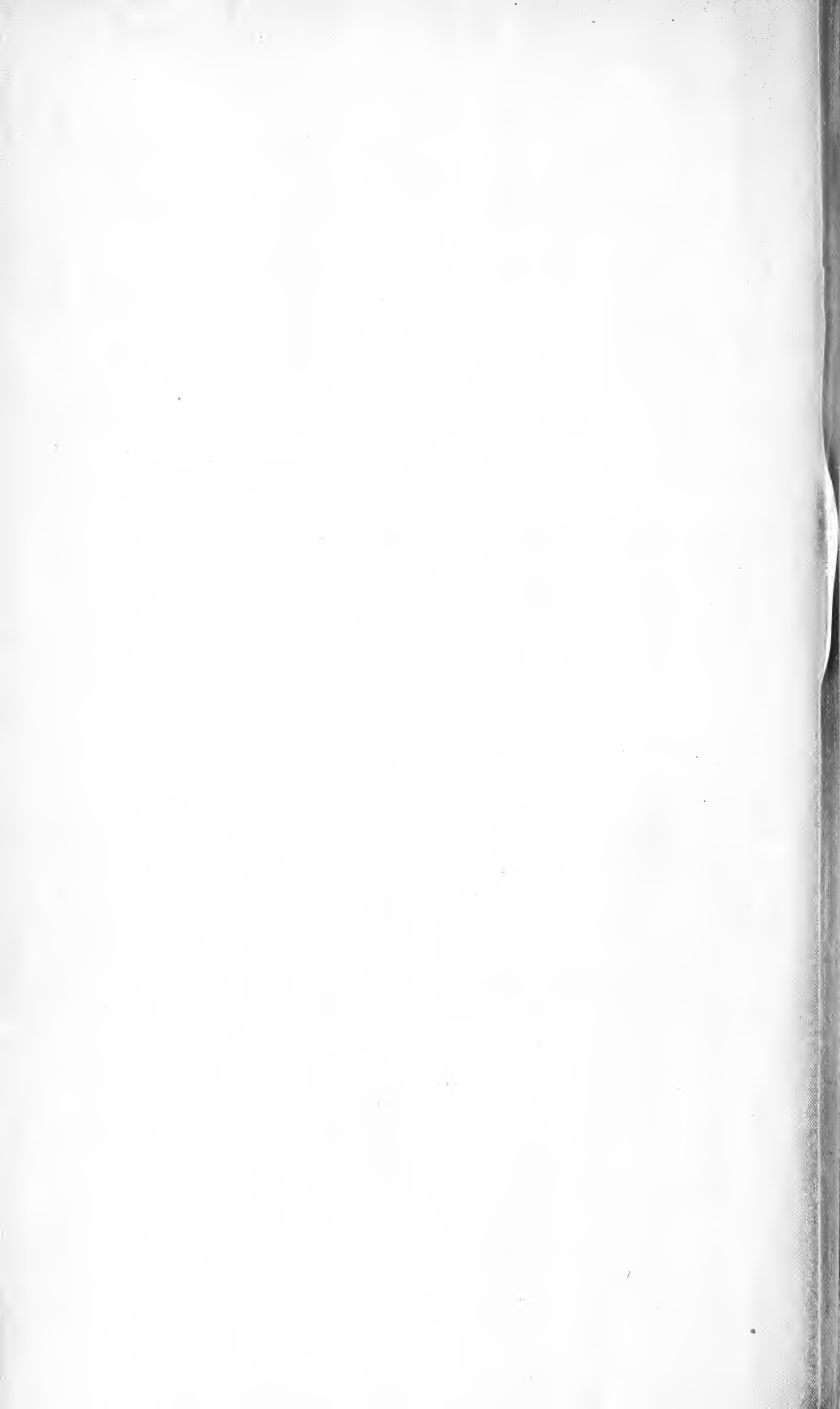
(17) $\text{TA} \vee \text{BA} \sim 116$

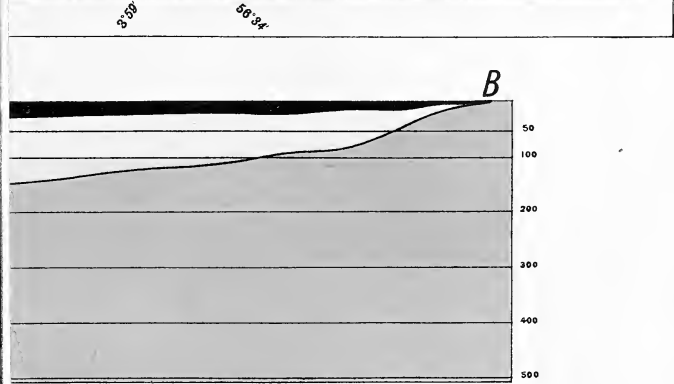
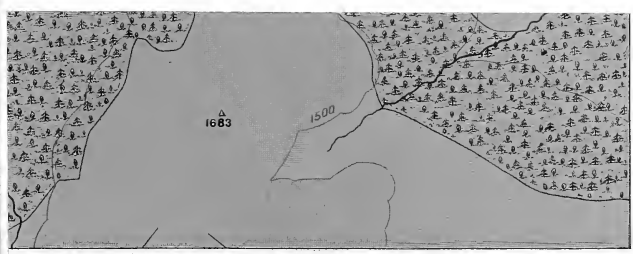
SURVEYED IN 1902 BY SIR JOHN MURRAY
T N JOHNSTON M B C M JAMES PEARSONS BSc
AND JAMES MURRAY

Height of Baffle and Water above Baffle (mm) 540 (low)

[illegible]

LONGITUDINAL SECTION ALONG AXIS OF MAXIMUM DEPTH

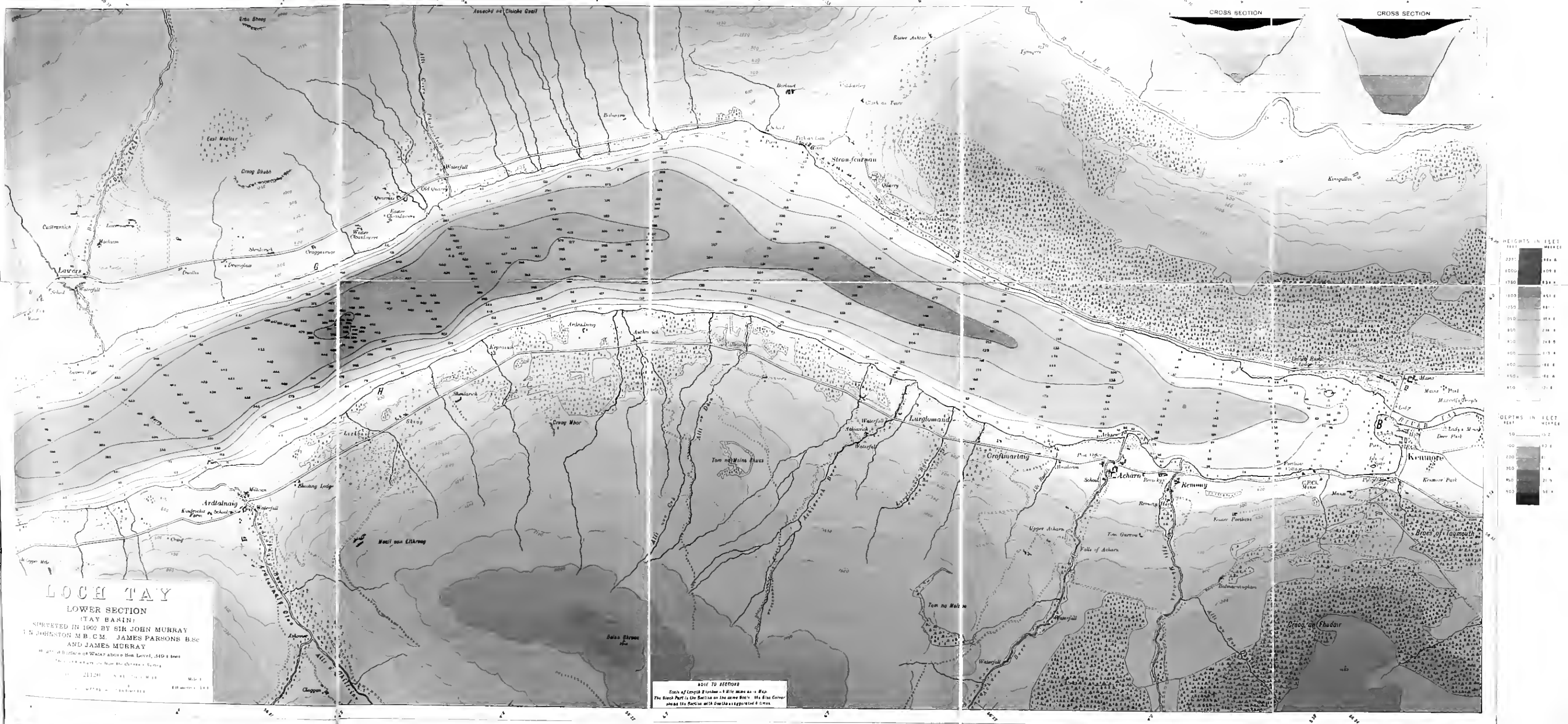




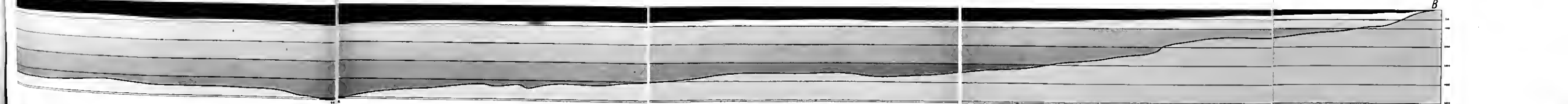


BATHYMETRICAL SURVEY OF THE FRESH-WATER LOCHS OF SCOTLAND

UNDER THE DIRECTION OF
SIR JOHN MURRAY, K.C.B., F.R.S., D.Sc., AND LAURENCE PULLAR, F.R.S.E.



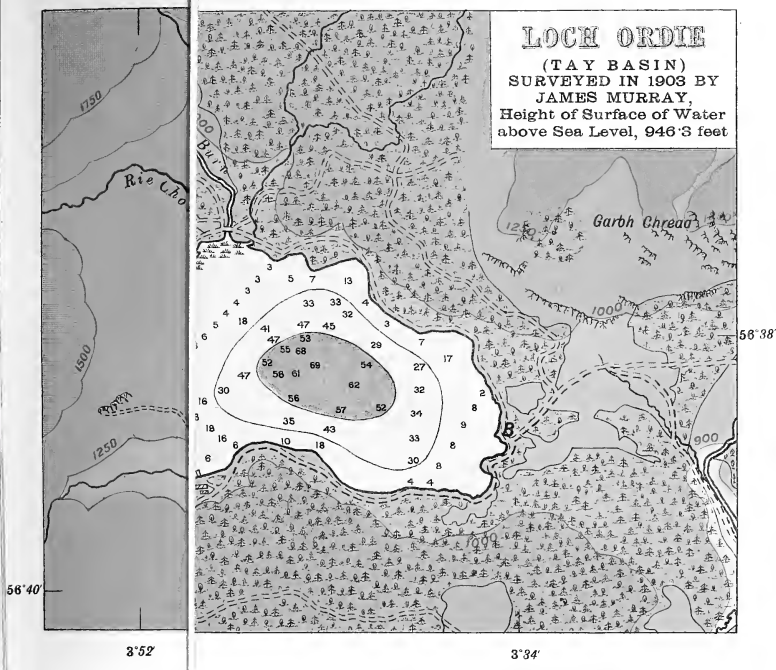
LONGITUDINAL SECTION ALONG AXIS OF MAXIMUM DEPTH





3°52'

3°34'

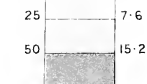


SECTION



The Land Contours are from
the Ordnance Survey

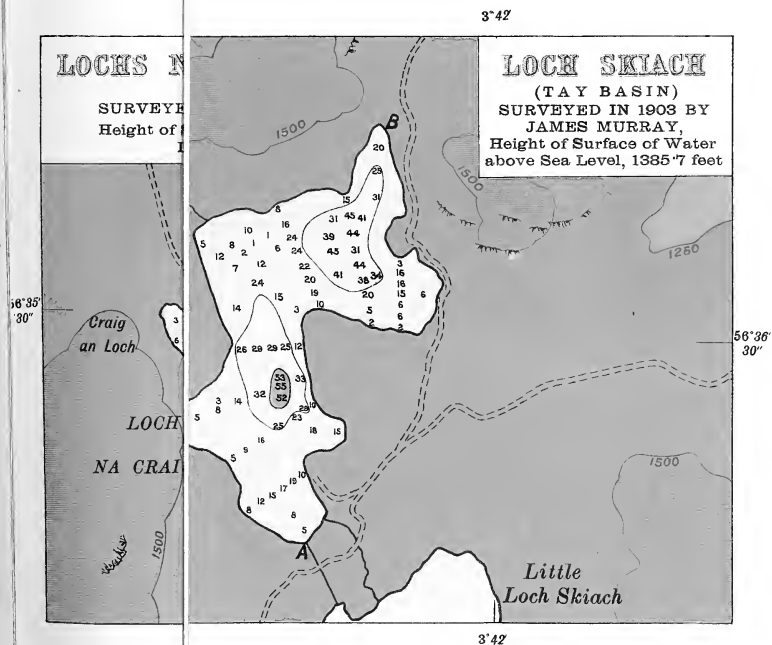
DEPTHS IN FEET
METRES



SURVEYED

Height of

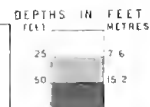
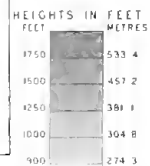
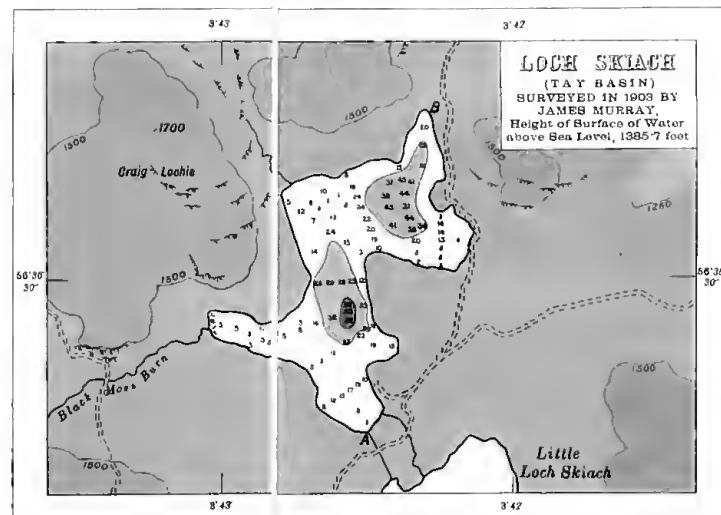
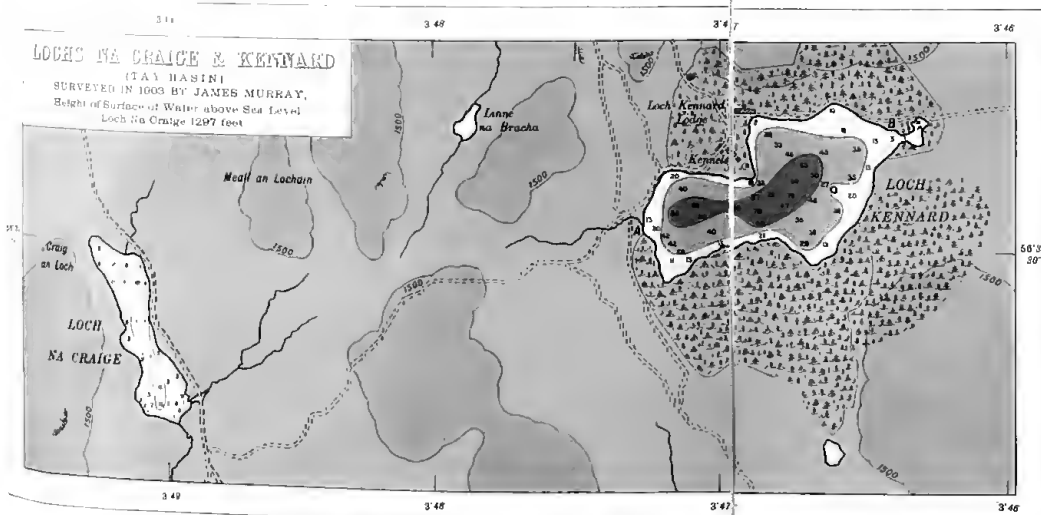
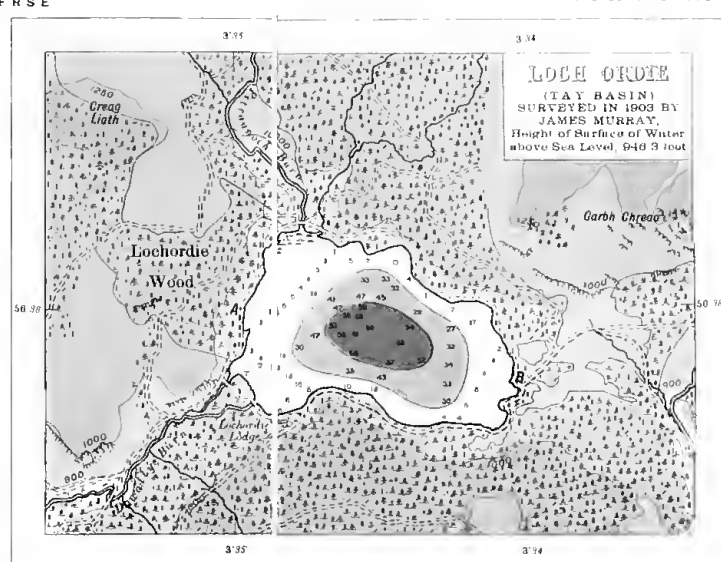
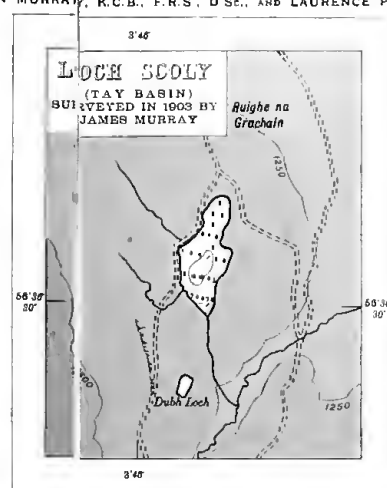
I



SECTION



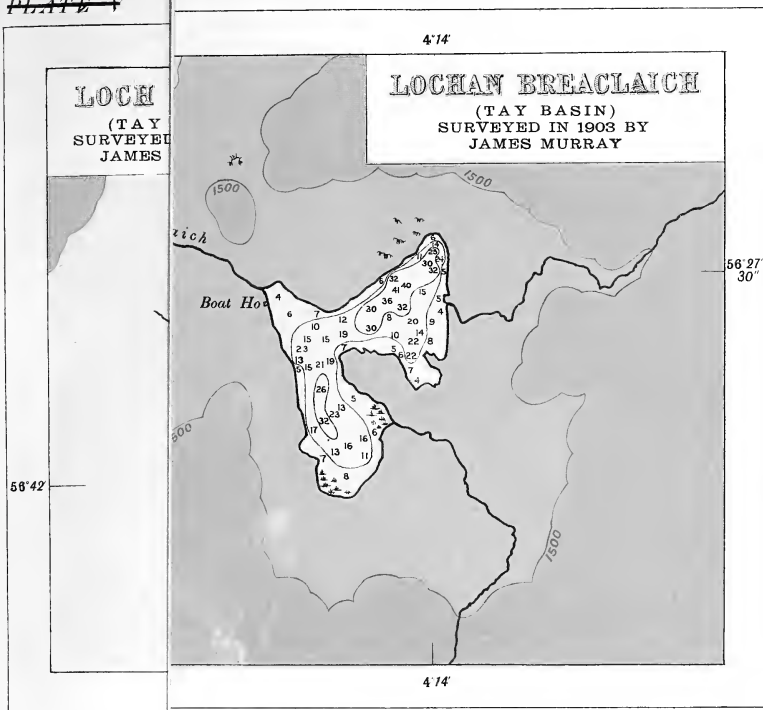




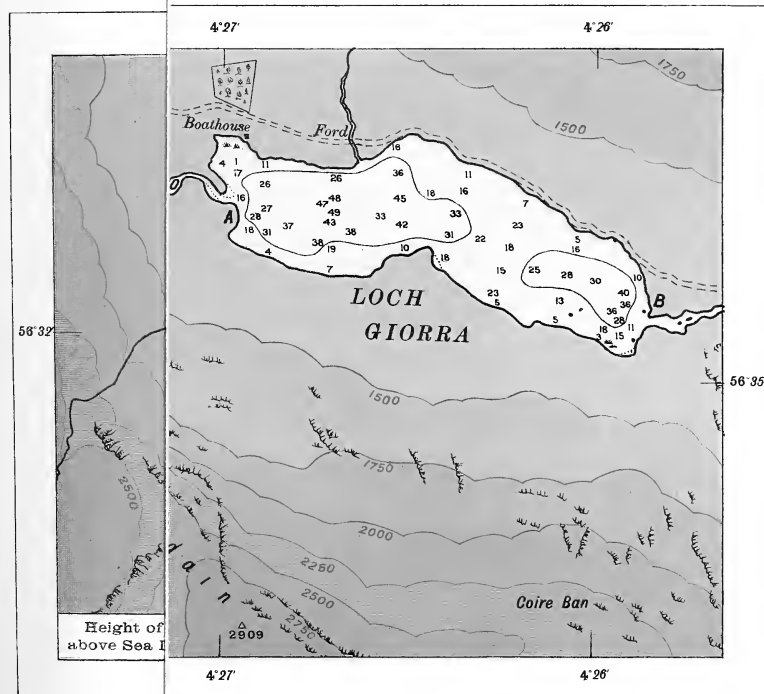
The Land Contours are from
the Ordnance Survey

• *Deputatus*

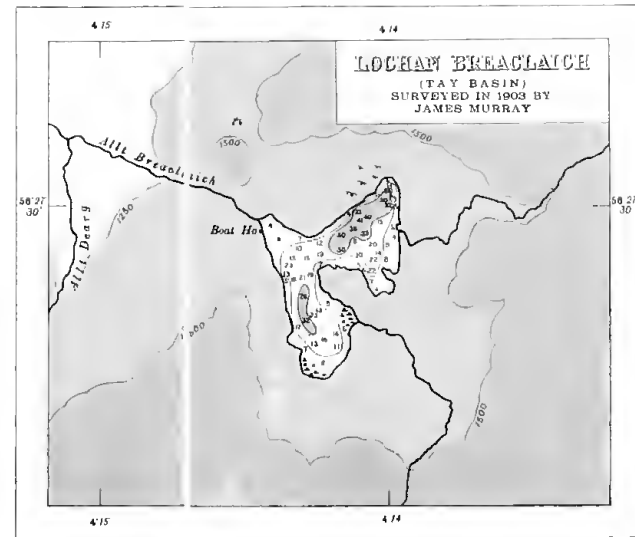
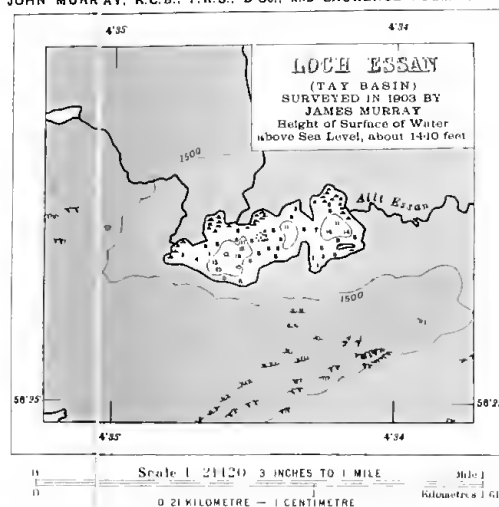
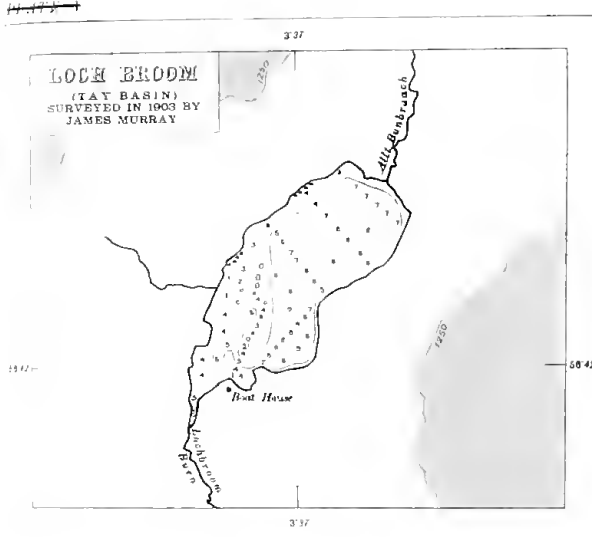
PLATE V



The Land Contours are from
the Ordnance Survey

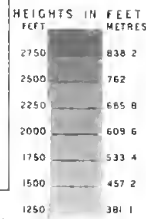


UNDER THE DIRECTION OF
SIR JOHN MURRAY, K.C.B., F.R.S., D.Sc., AND LAURENCE PULLAR, F.R.S.E.

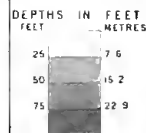
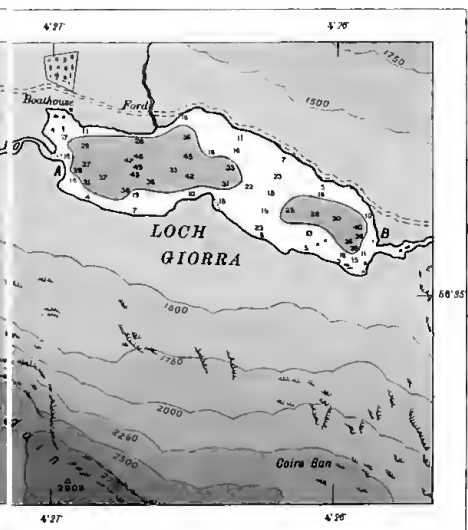
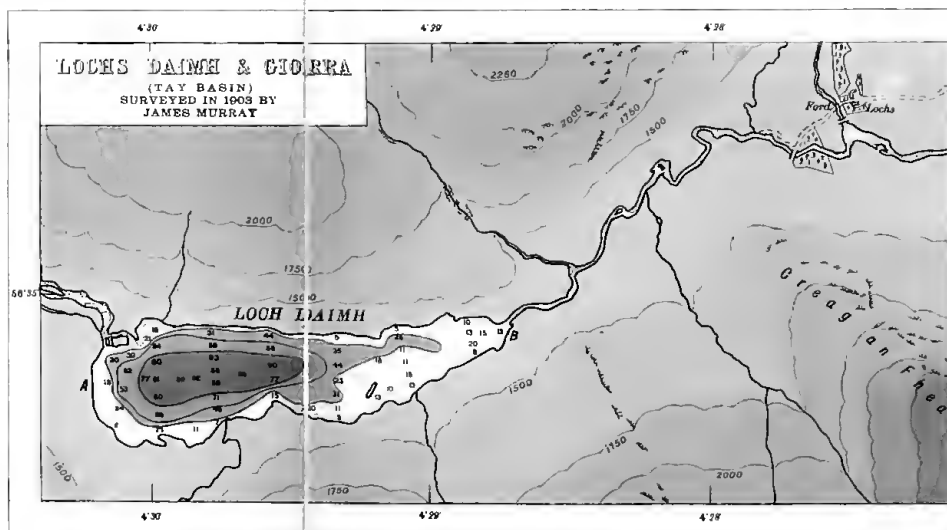
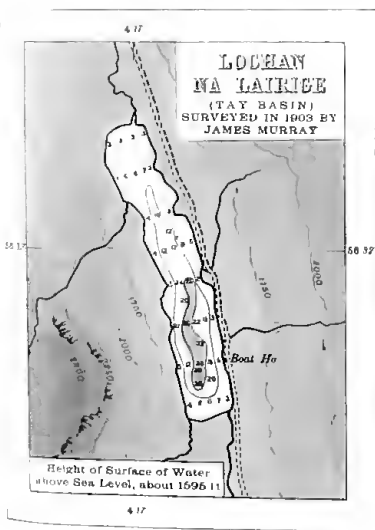


Scale 1:21120 3 INCHES TO 1 MILE
0.21 KILOMETRE — 1 CENTIMETRE

NOTE TO SECTIONS
Scale of Length 3 inches = 1 Mile same as in Map
The Black Part is the Section on the same Scale the Blue Colour
shows the Section with Depths exaggerated 5 times



The Land Contours are from the Ordnance Survey



1:6 Scale

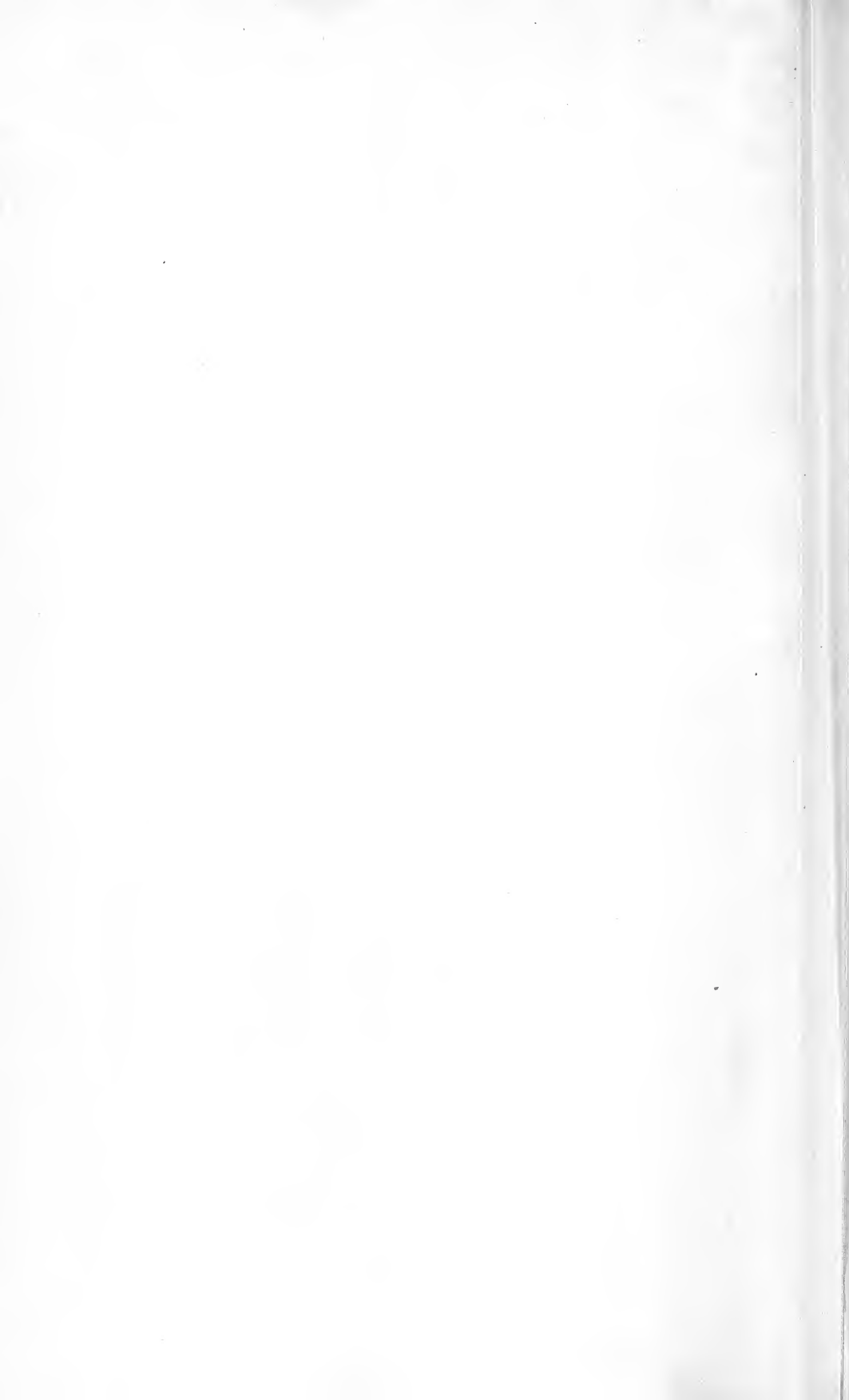
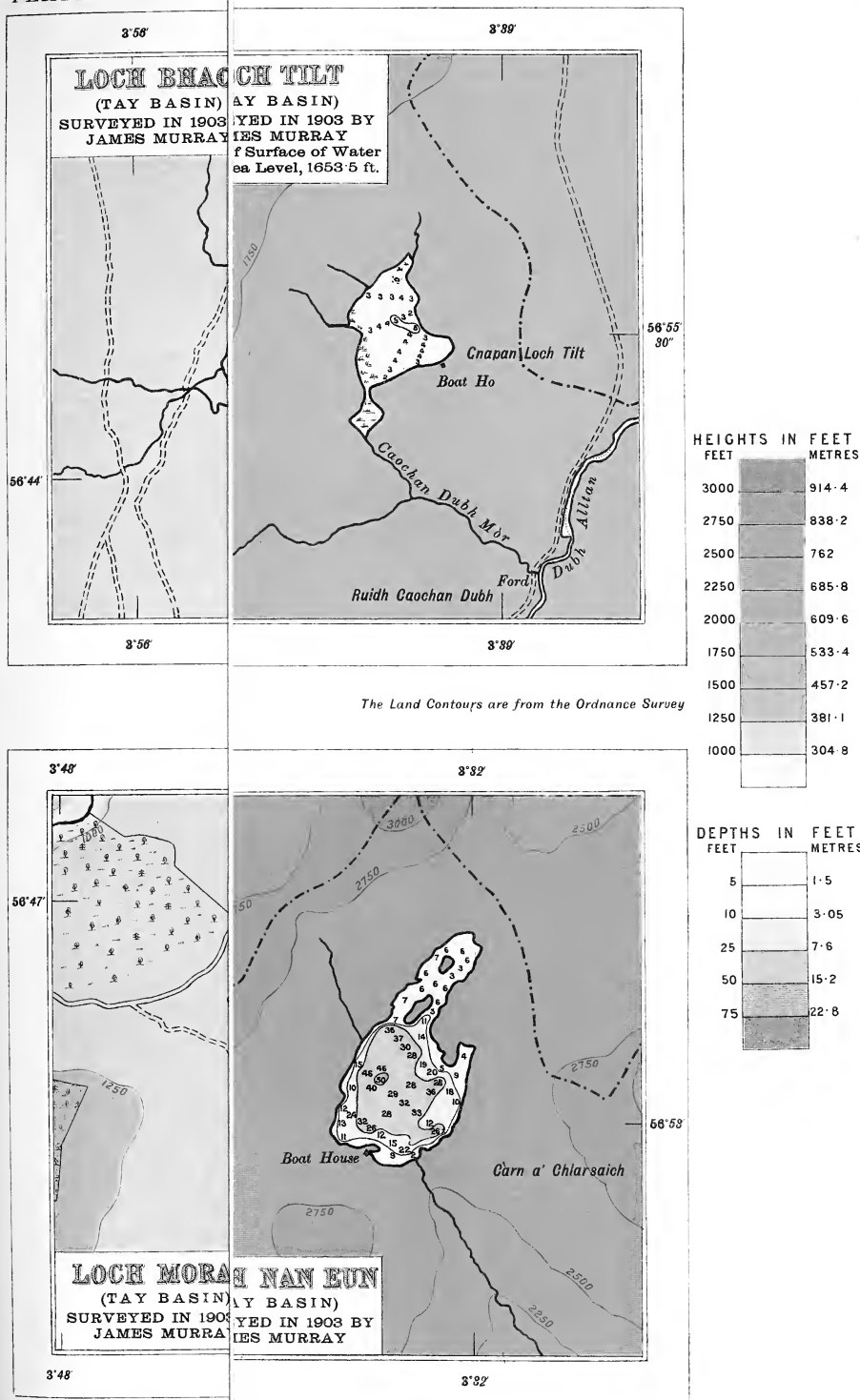


PLATE I

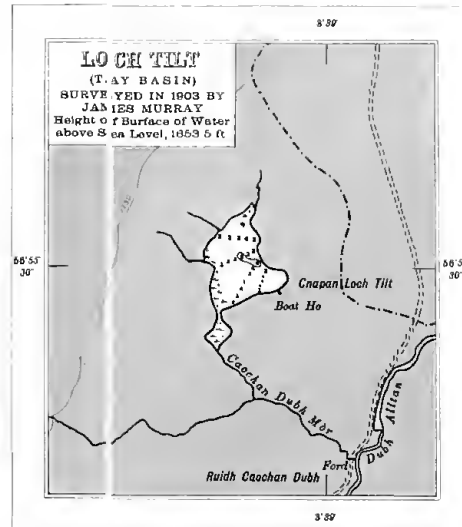
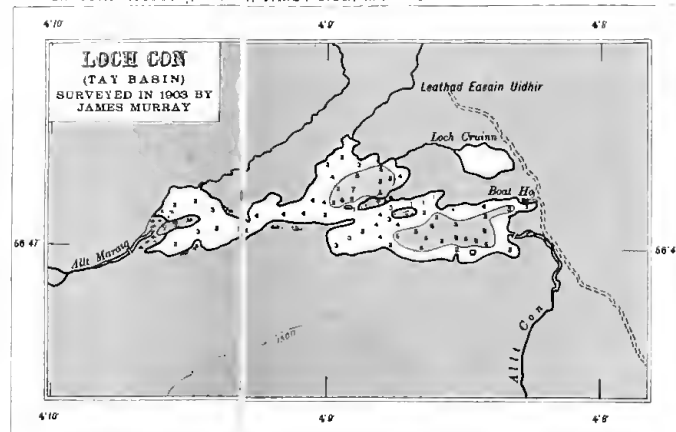
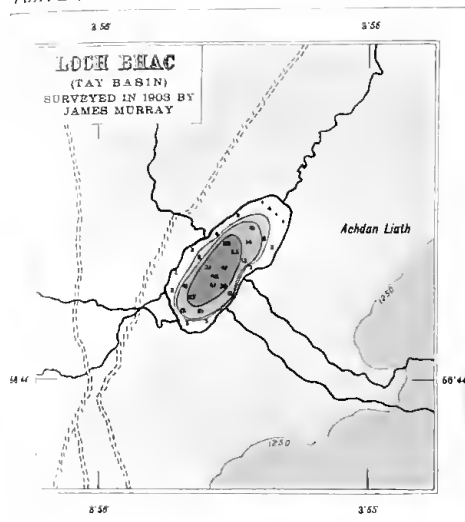


BATHYMETRICAL SURVEY OF THE FRESH-WATER LOCHS OF SCOTLAND

UNDER THE DIRECTION OF

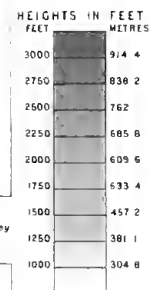
SIR JOHN MURRAY, K.C.B., F.R.S., D.Sc., AND LAURENCE PULLAR, F.R.S.E.

PLATE I

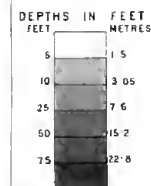
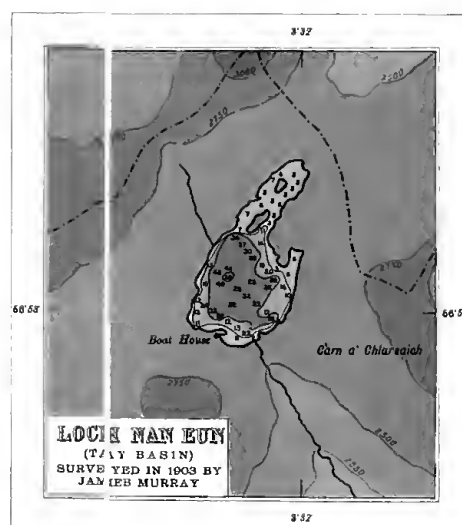
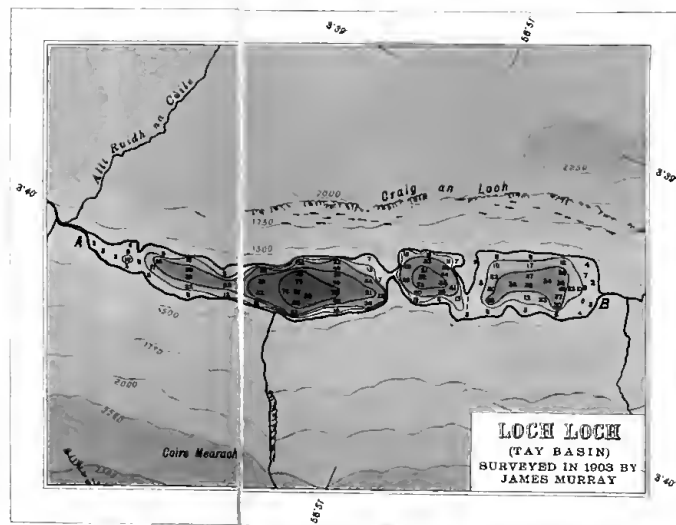
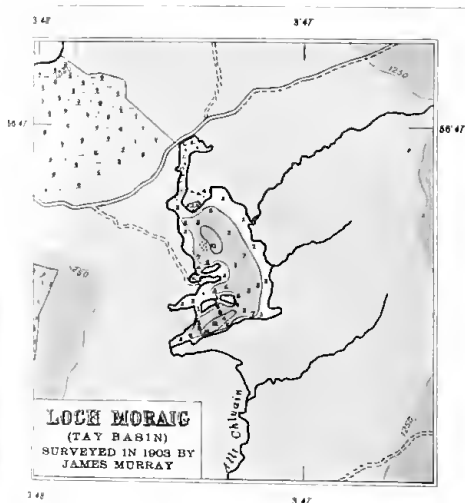


NOTE TO SECTIONS
Scale of Length 3 inches = 1 Mile same as in Map
The Blue & Part in the Section on the same Scale, the Blue Colour
shows the Section with Depths exaggerated 5 times

Scale 1:2120 3 INCHES TO 1 MILE
0 21 KILOMETRE — 1 CENTIMETRE



The Land Contours are from the Ordnance Survey



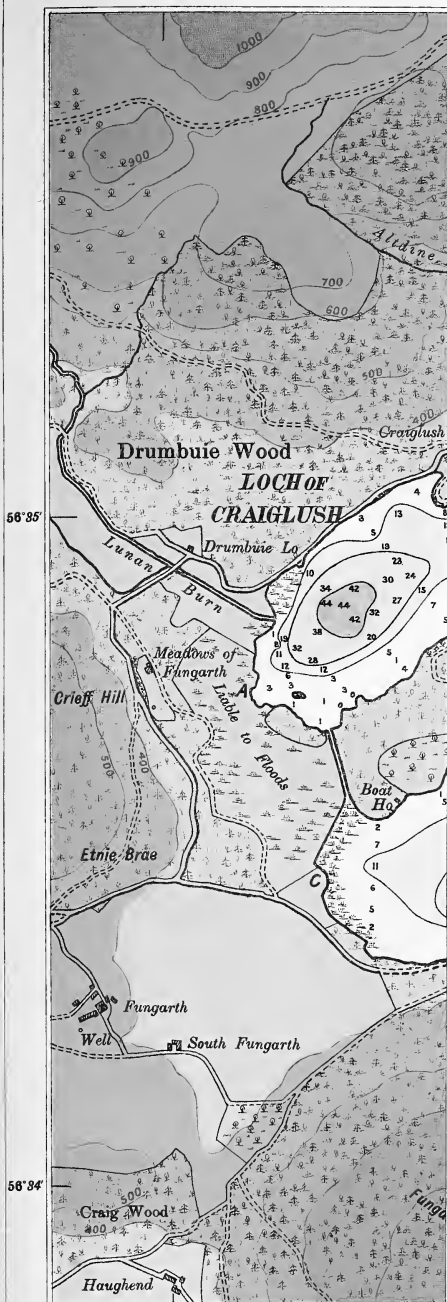
70 Barrels

BATHYMETRICAL SURV

PLATE H

SIR JOHN MURRAY

3' 34'



NOTE TO SECTIONS

Scale of Length 3 inches = 1 Mile same as in Map.
 The Black Part is the Section on the same Scale; the Blue Colour
 shows the Section with Depths exaggerated 5 times.

3' 34'



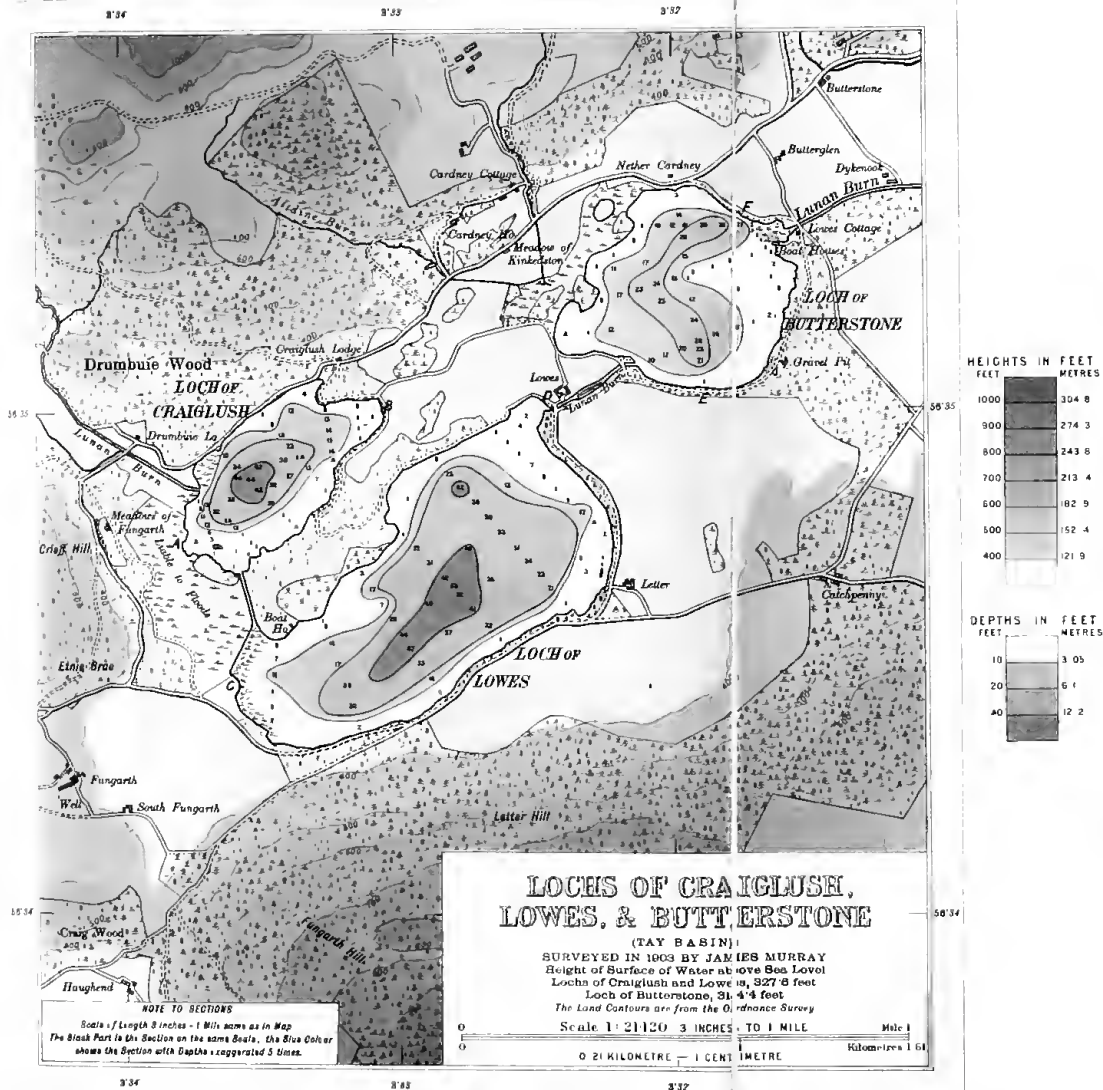


BATHYMETRICAL SURVEY OF THE FRESH-WATER LOCHS OF SCOTLAND

UNDER THE DIRECTION OF

SIR JOHN MURRAY, K.C.B., F.R.S., D.Sc., AND LAURENCE PULLAR, F.R.S.E.

PLATE 4



The Contours are exaggerated 5 Times

J. G. P. 1000

3'9

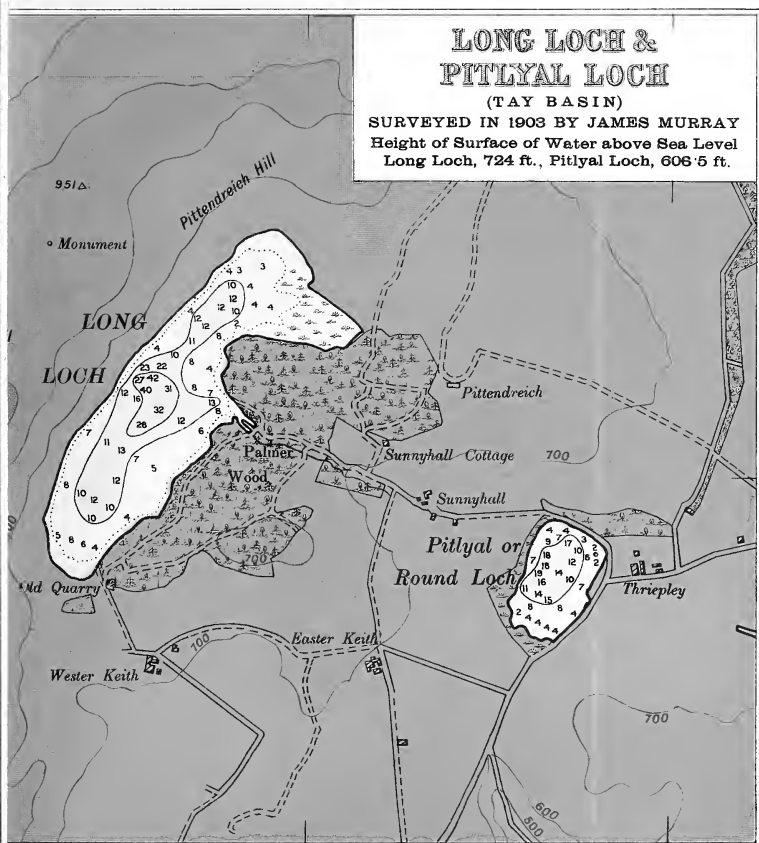
3'8

LONG LOCH & PITLYAL LOCH

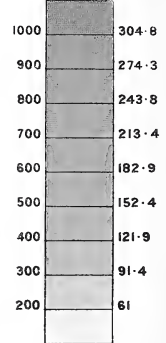
(TAY BASIN)

SURVEYED IN 1903 BY JAMES MURRAY

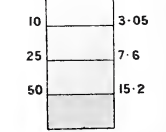
Height of Surface of Water above Sea Level
Long Loch, 724 ft., Pitlyal Loch, 606.5 ft.



HEIGHTS IN FEET
METRES

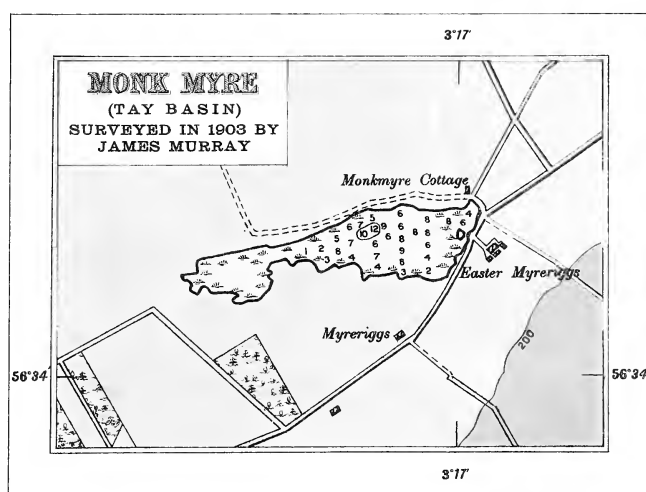
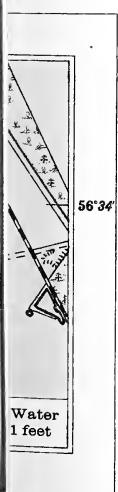


DEPTHS IN FEET
METRES



NOTE TO SECTIONS

Scale of Length 3 inches = 1 Mile same as in Map.
The Black Part is the Section on the same Scale: the Blue Colour
shows the Section with Depths exaggerated 5 times.

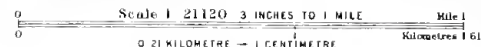
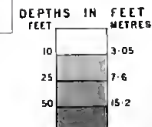
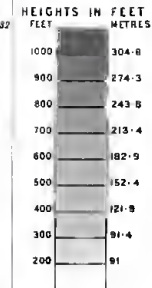
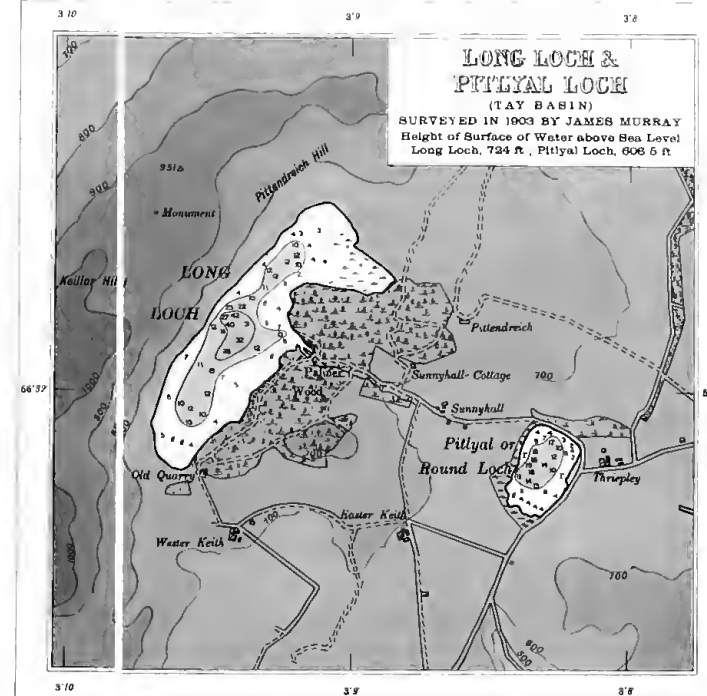
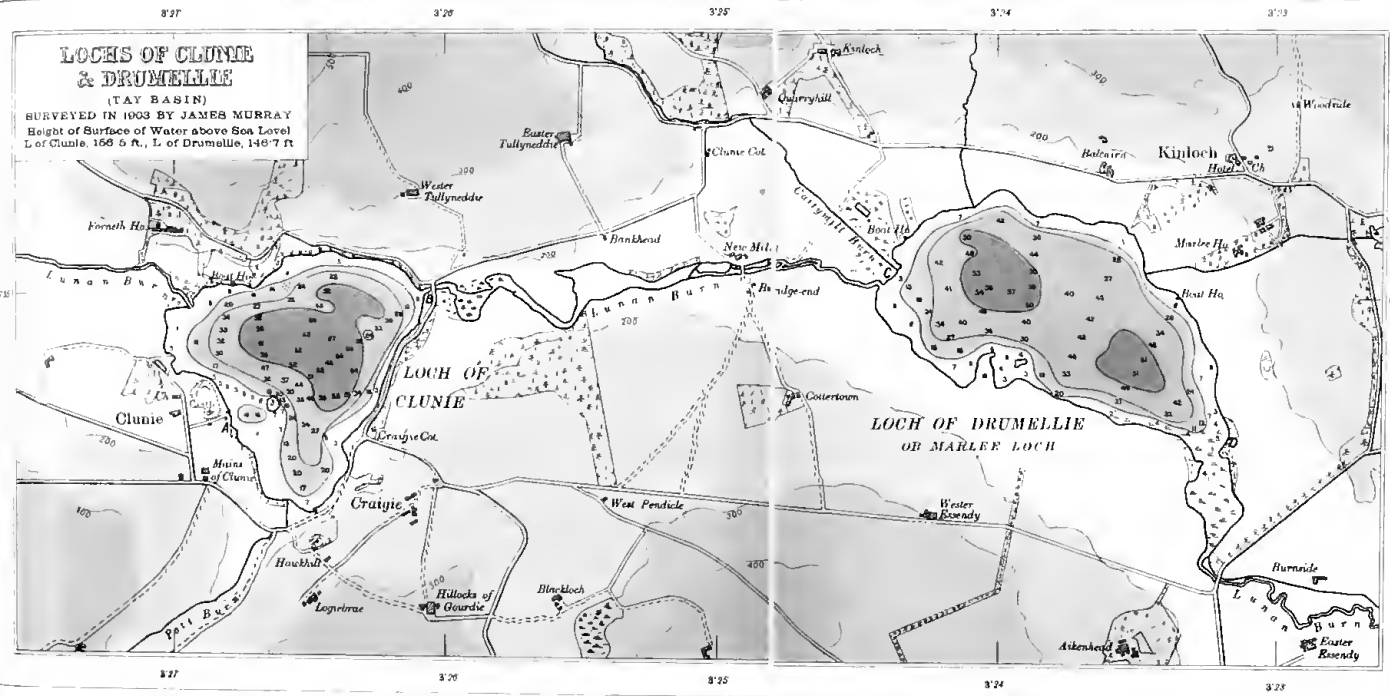


J.G. Bartholomew.



BATHYMETRICAL SURVEY OF THE FRESH-WATER LOCHS OF SCOTLAND

UNDER THE DIRECTION OF
SIR JOHN MURRAY, K.C.B., F.R.S., D.Sc., AND LAURENCE PULLAR, FRSE



NOTE TO SECTIONS
Scale of Length 3 inches = 1 Mile same as in Map.
The Black Part is the Section on the same Scale. The Blue Colour shows the Section with Depths exaggerated 5 times.

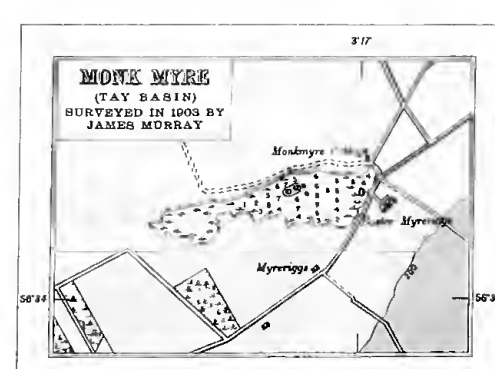
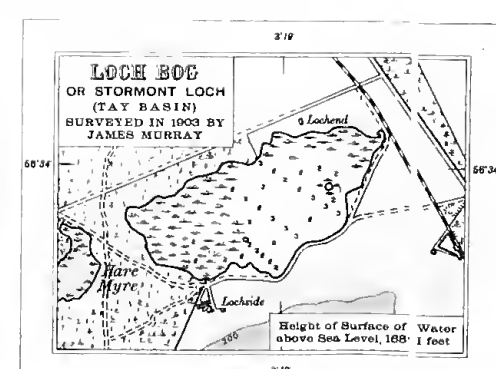
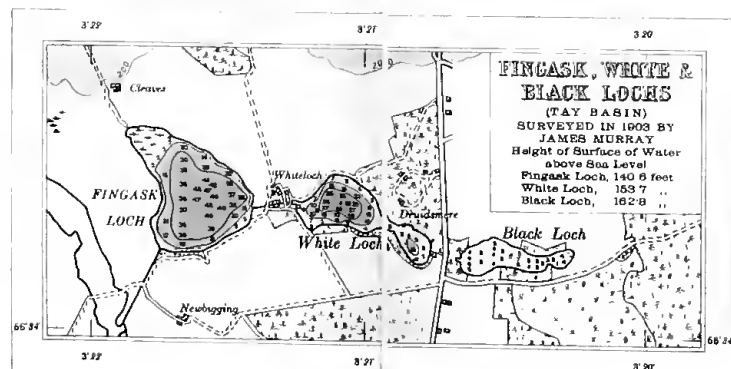
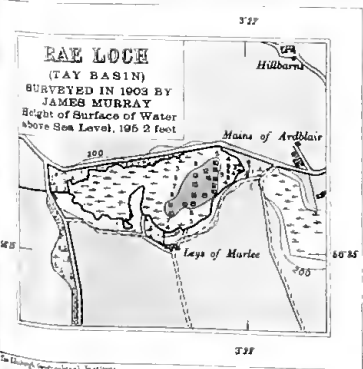
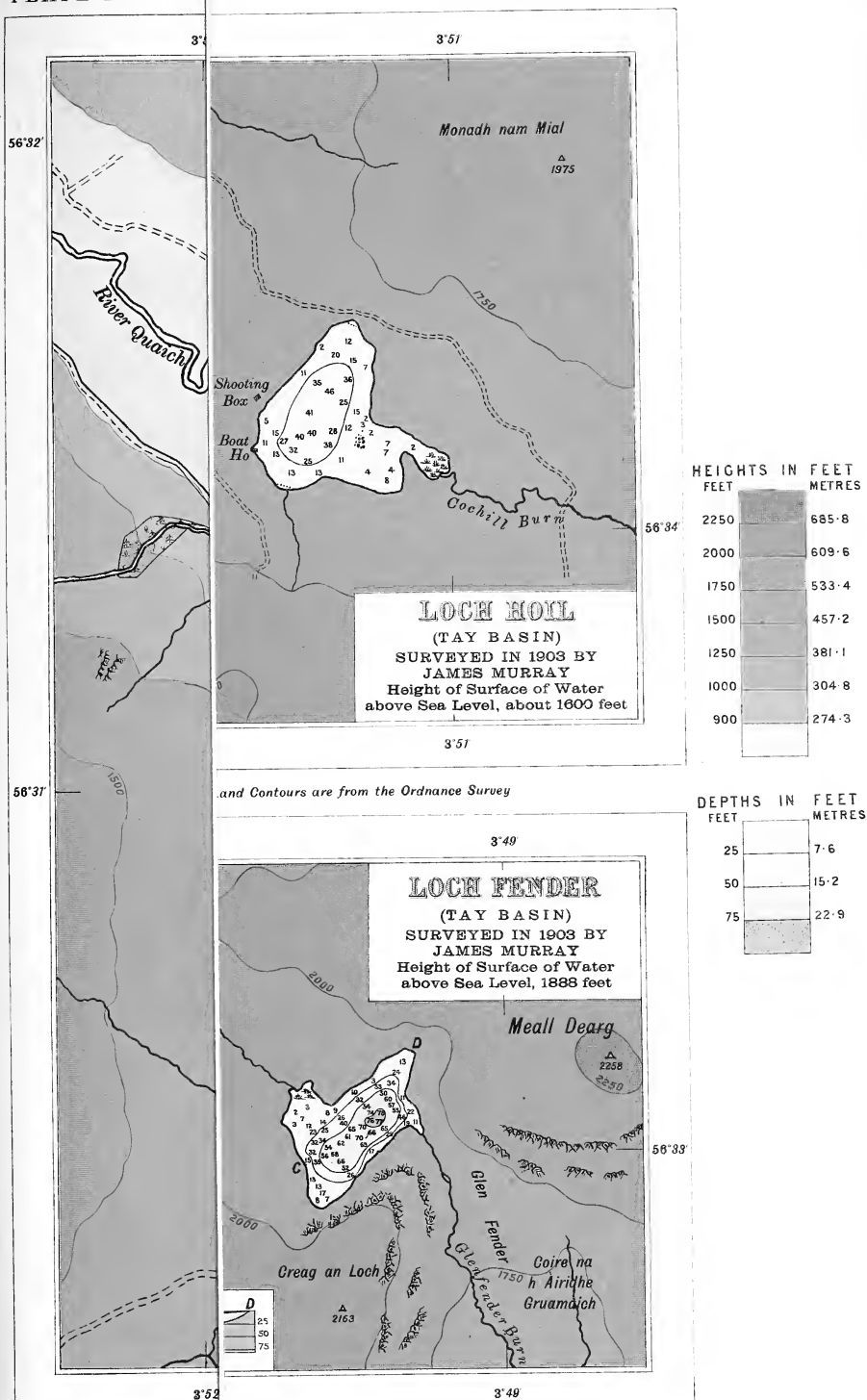




PLATE IV



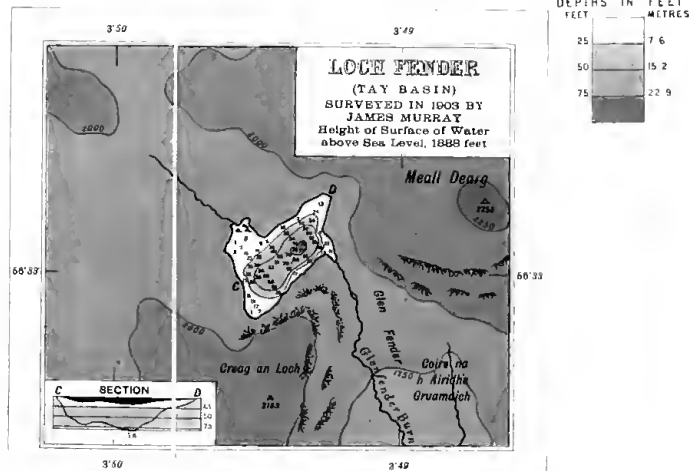
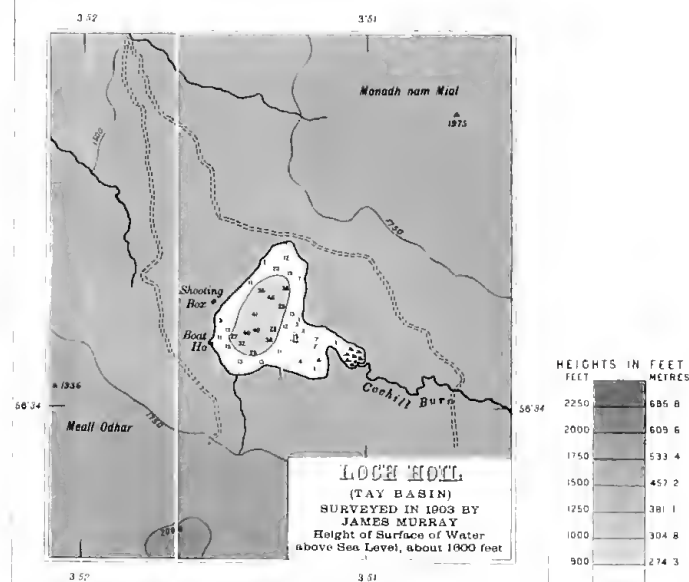
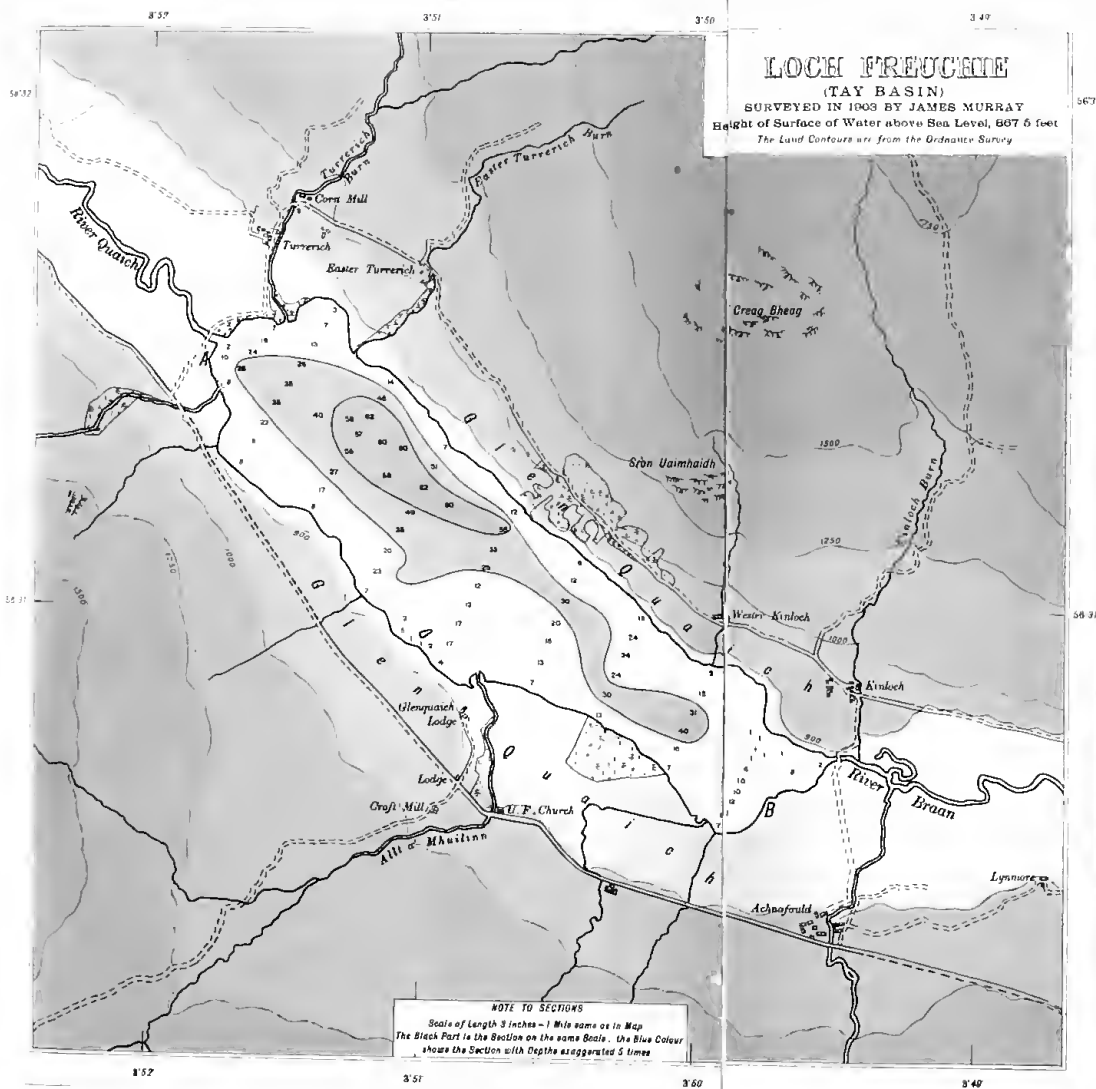
Scale 1:21,120 3 INCHES TO 1 MILE

Mile 1

21 KILOMETRE — 1 CENTIMETRE

Kilometres 1.61

H. T. H. W.

UNDER THE DIRECTION OF
SIR JOHN MURRAY, K.C.B., F.R.S., D.Sc., AND LAURENCE PULLAR, F.R.S.E.

Scale 1: 21120 3 INCHES TO 1 MILE
0 21 KILOMETRE — 1 CENTIMETRE Kilometres 1.61



BATHYMETRICAL SURVEY

PLATE V

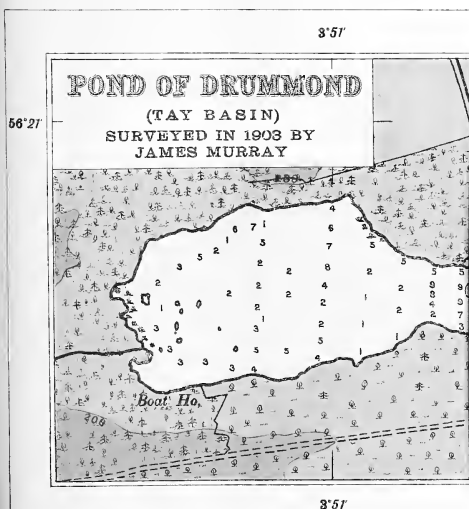
SIR JOHN MURRAY.



NOTE TO SECTIONS

Scale of Length 3 inches = 1 Mile same as in Map.

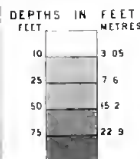
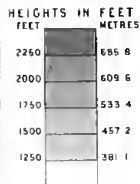
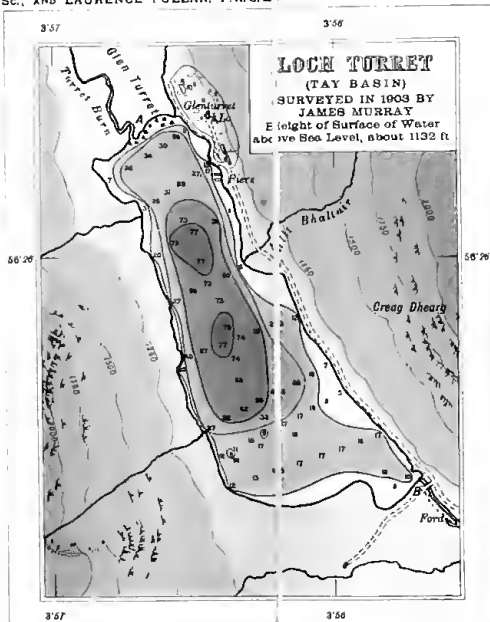
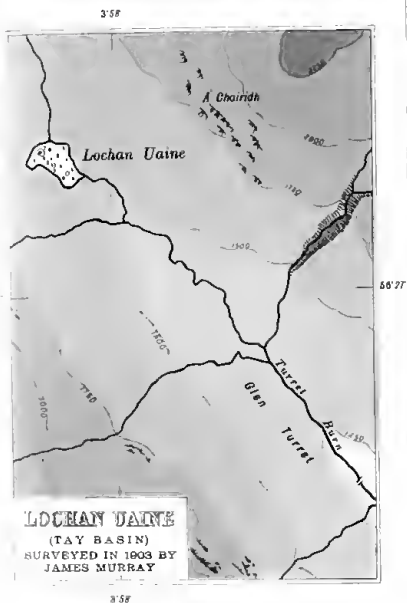
The Black Part is the Section on the same Scale; the Blue Colour shows the Section with Depths exaggerated 5 times.



BATHYMETRICAL SURVEY OF THE FRESH-WATER LOCHS OF SCOTLAND

UNDER THE DIRECTION OF

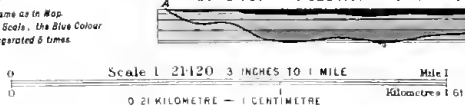
SIR JOHN MURRAY, K.C.B., F.R.S., D.Sc., AND LAURENCE PULLAR, F.R.S.E.



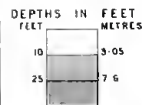
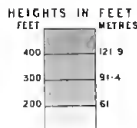
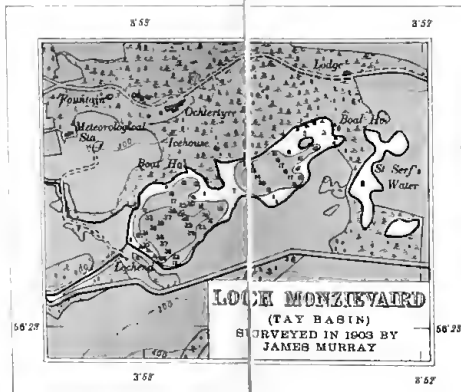
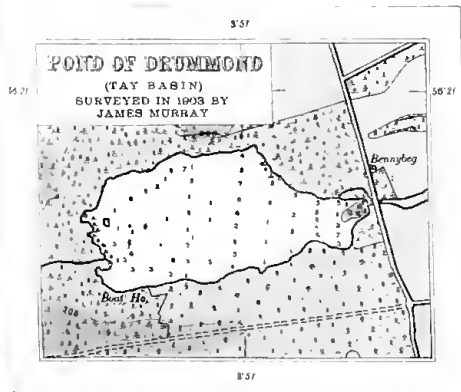
NOTE TO SECTION B

Scales of Length 3 inches = 1 Mile same as in Map.
The Black Part in the Section on the same Scale, the Blue Colour shows the Section with Depths exaggerated 3 times.

LONGITUDINAL SECTION ALONG AXIS OF MAXIMUM DEPTH



The Land Contours are from the Ordnance Survey



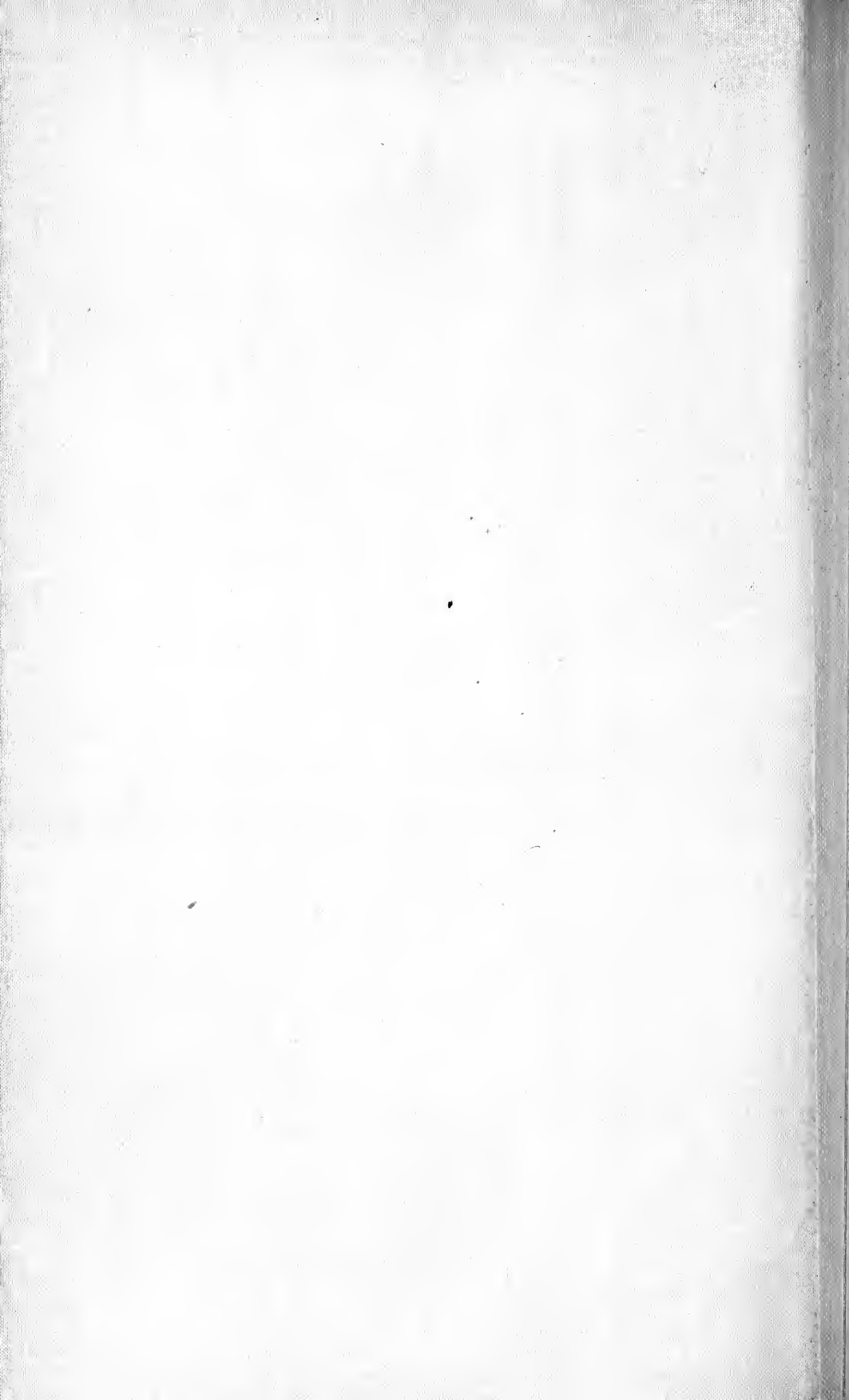
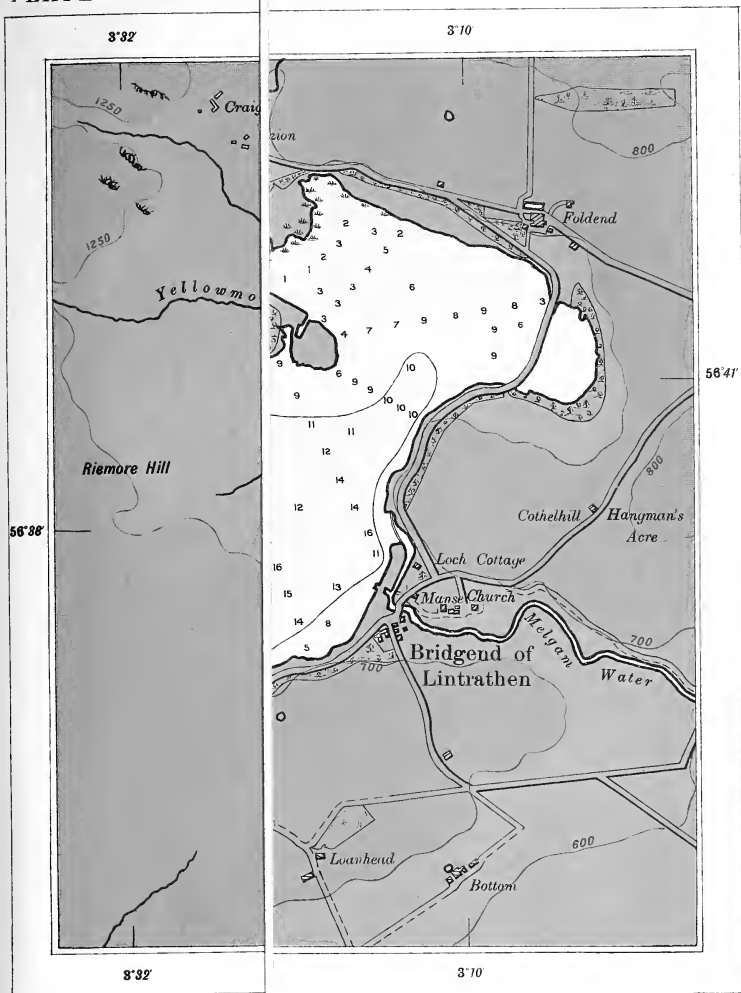


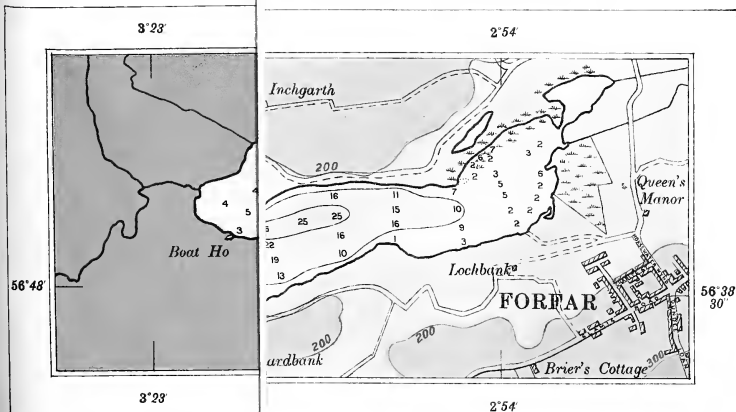
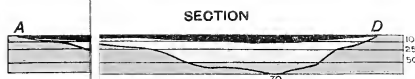
PLATE IV

HEIGHTS IN FEET
FEET METRES

1500	457.2
1250	381.1
1000	304.8
900	274.3
800	243.8
700	213.4
600	182.9
500	152.4
400	121.9
300	91.4
200	61

DEPTHS IN FEET
FEET METRES

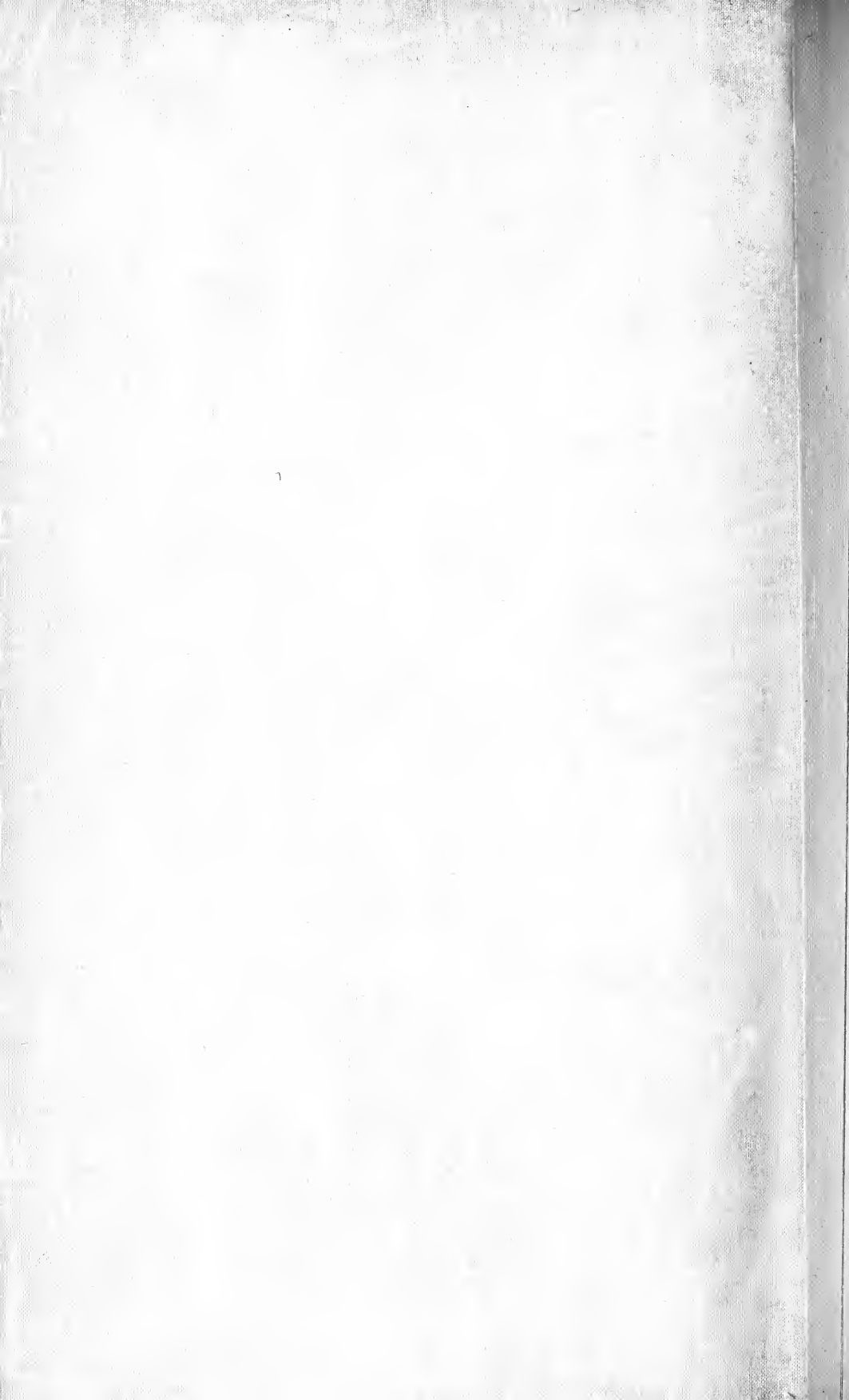
10	3.05
25	7.6
50	15.2

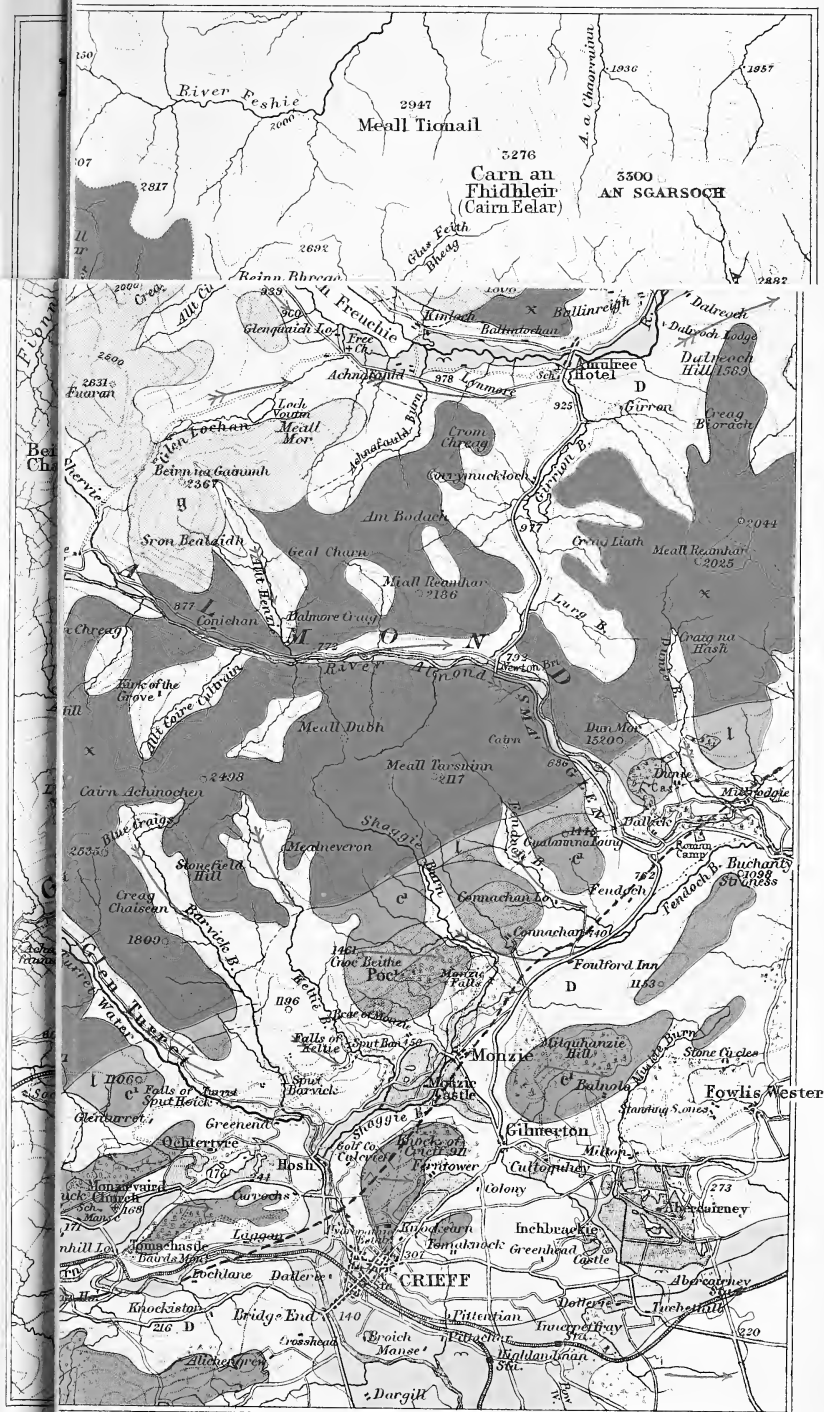




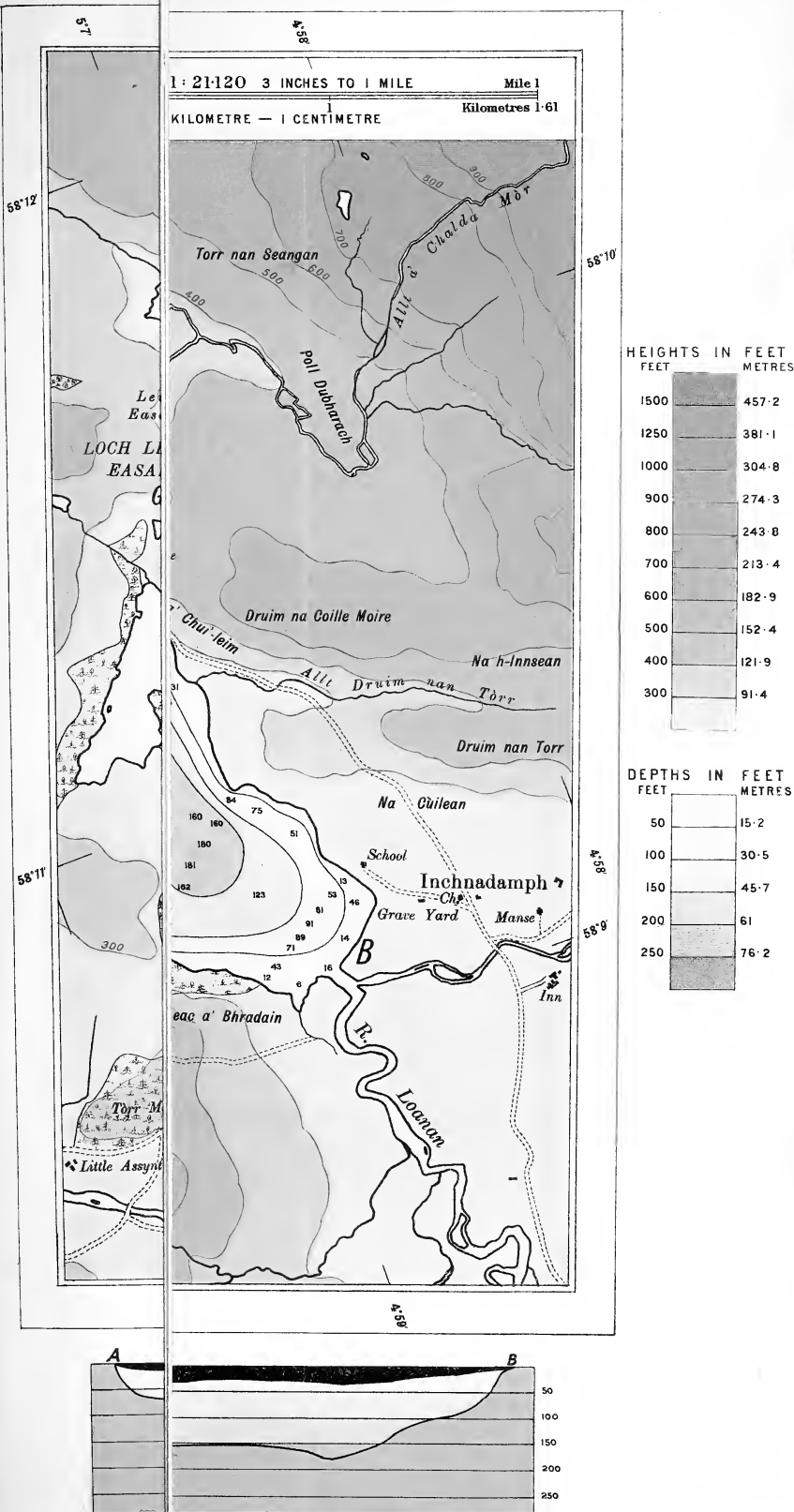
0 24 KILOMETRE — 1 CENTIMETRE







~~PLATE I~~



BATHYMETRICAL SURVEY OF THE FRESH-WATER LOCHS OF SCOTLAND

XXXV.

UNDER THE DIRECTION OF
SIR JOHN MURRAY, K.C.B., F.R.S., D.Sc., AND LAURENCE PULLAR, F.R.S.

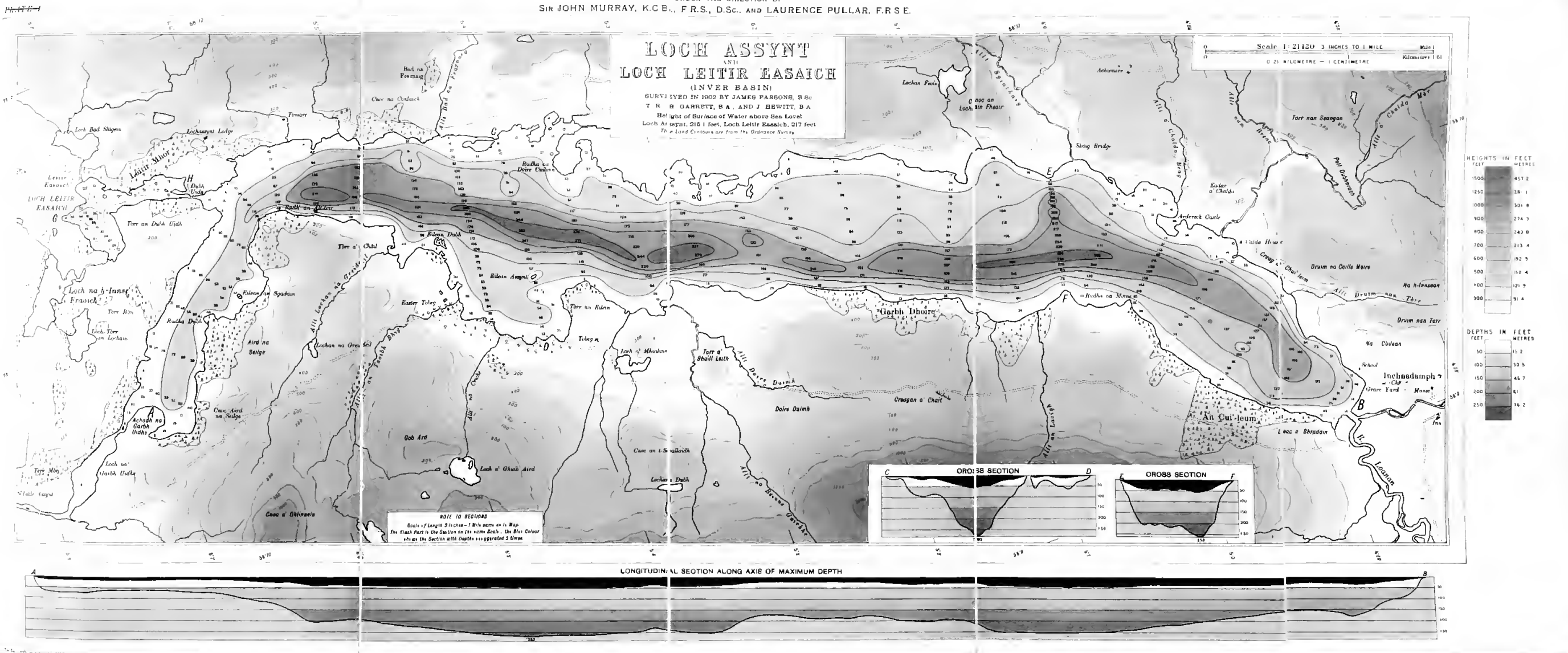
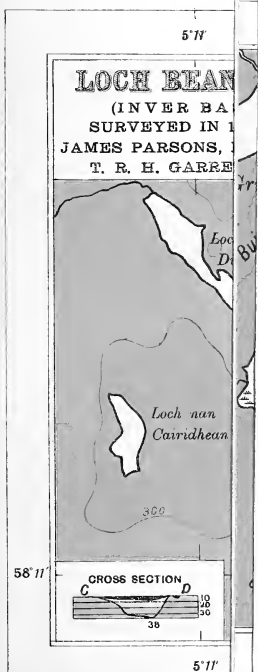
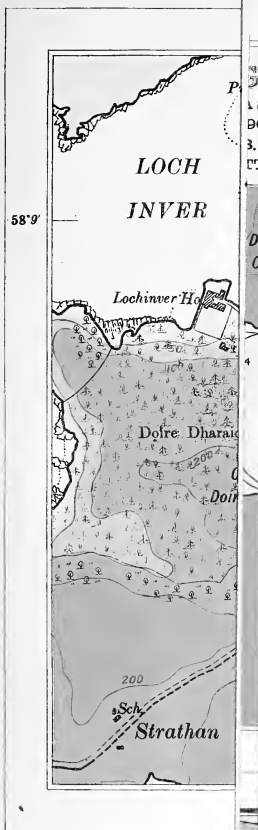
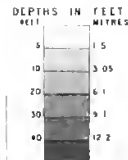
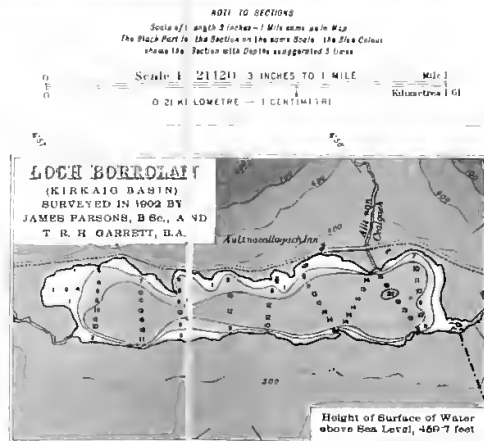
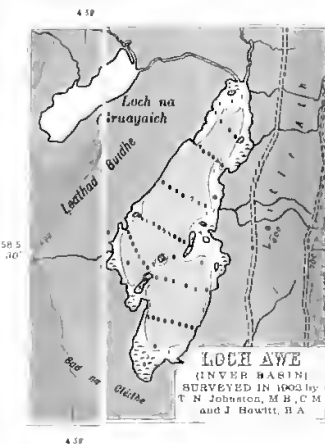
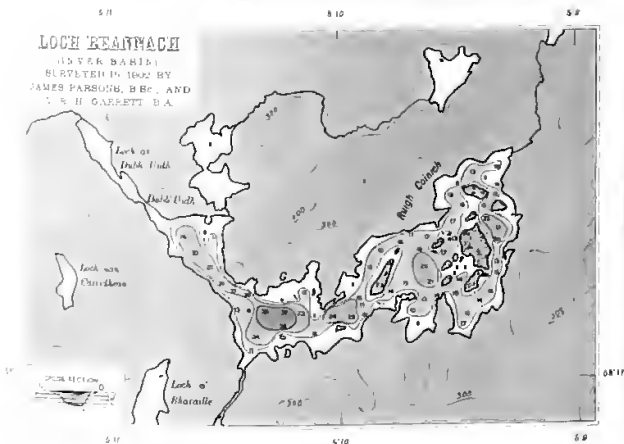
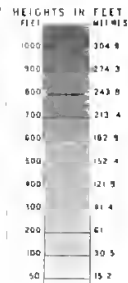
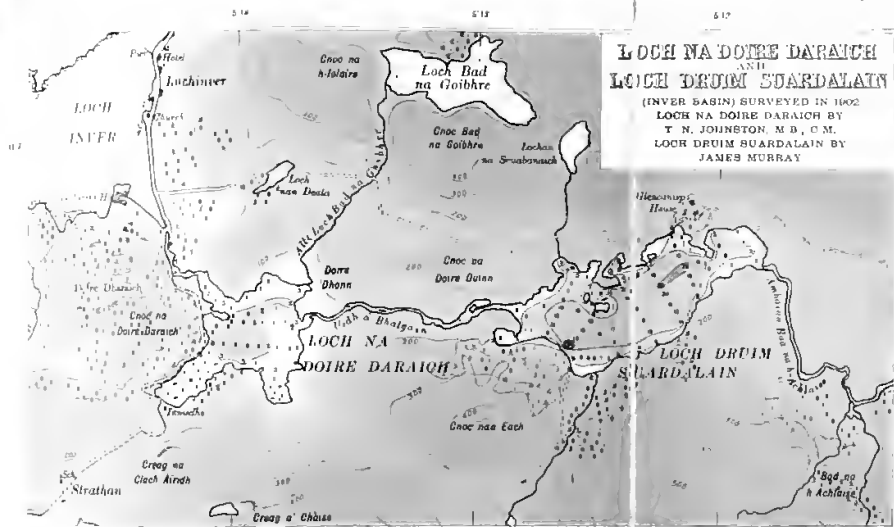


PLATE H



BATHYMETRICAL SURVEY OF THE FRESH-WATER LOCHS OF SCOTLAND

UNDER THE DIRECTION OF
SIR JOHN MURRAY K.C.B., F.R.S., D.S.C., AND LAURENCE PULLAR, F.R.S.E.





SIR JOHN MURRAY

514

(ROE BASI

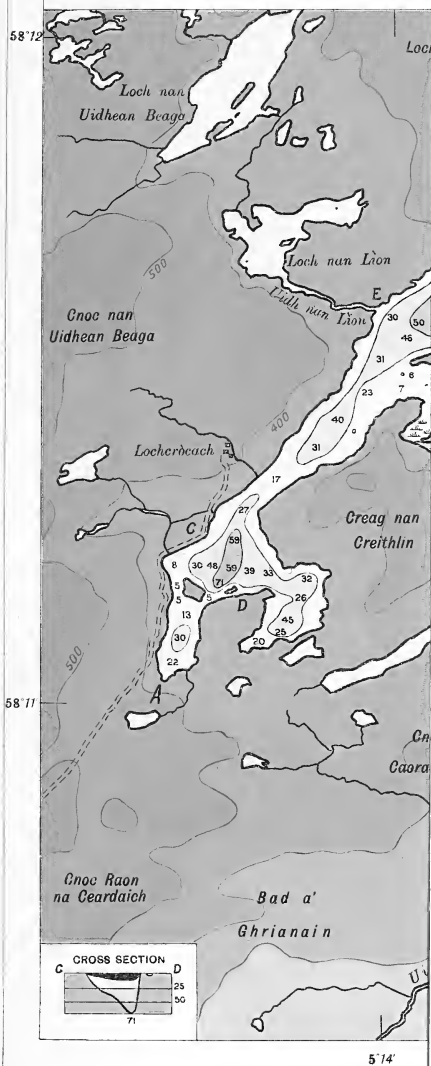
SURVEYED IN 1902 BY JAMES

T. R. H. GARRETT, B.A., AND

The Land Contours are from the C

Scale 1: 21.120 3 INCHES

0.21 KILOMETRE — 1 CENT



LONGITUDE

The Edinburgh Geographical Institute

A detailed longitudinal section of the ship's hull, showing the internal structure and the curved bottom profile. The section is oriented along the axis of maximum depth.



F



Mor

58



24

22

30

67

34

25
50
75
100

T

JDIN



BATHYMETRICAL SURVEY OF THE FRESH-WATER LOCHS OF SCOTLAND

UNDER THE DIRECTION OF
SIR JOHN MURRAY, K.C.B., F.R.S., D.Sc., AND LAURENCE PULLAR, F.R.S.E.

PLATE IV

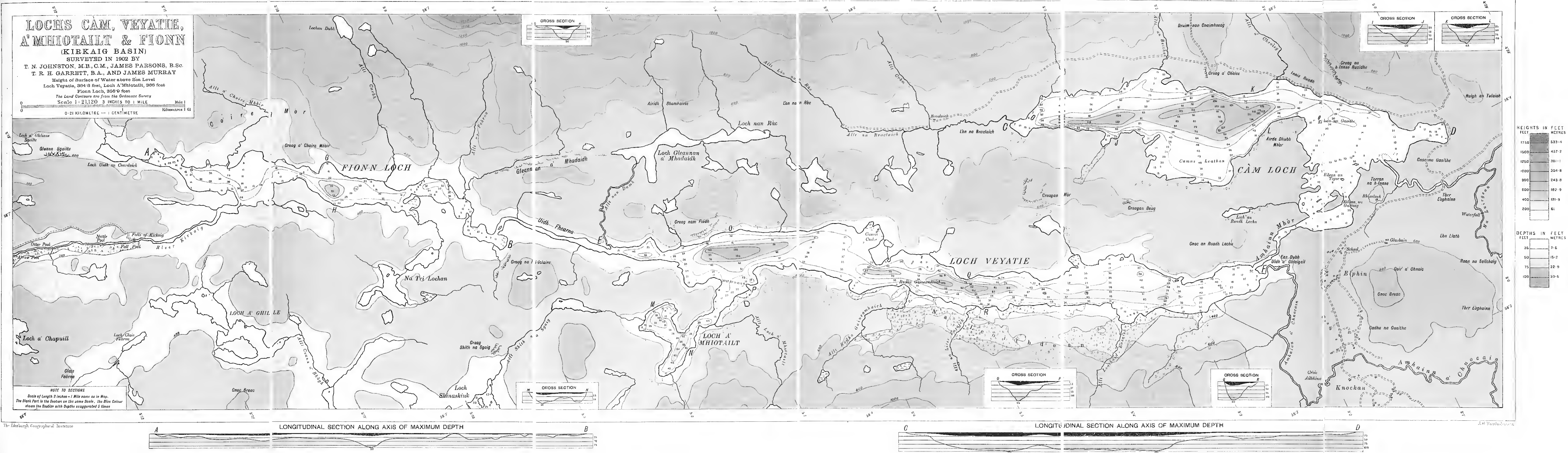
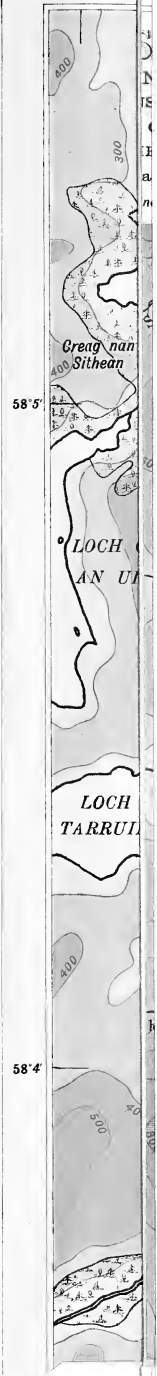




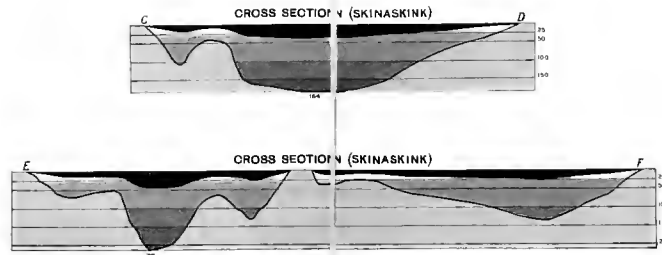
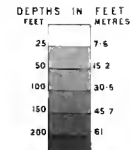
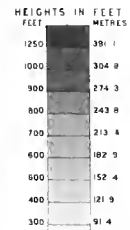
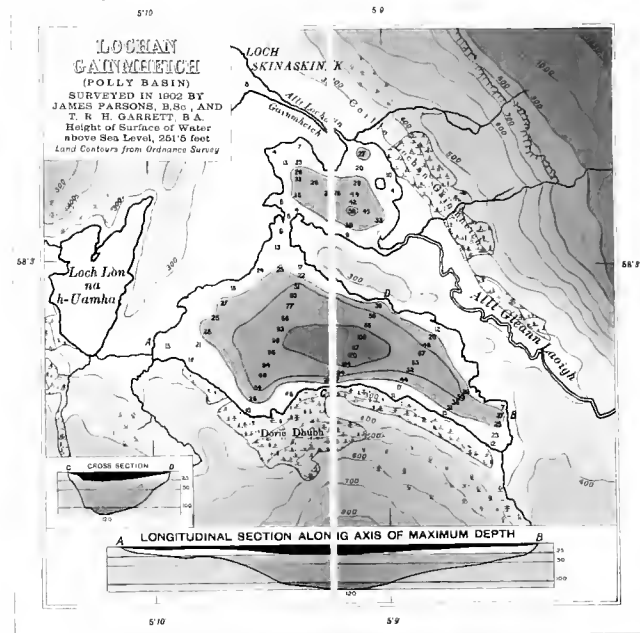
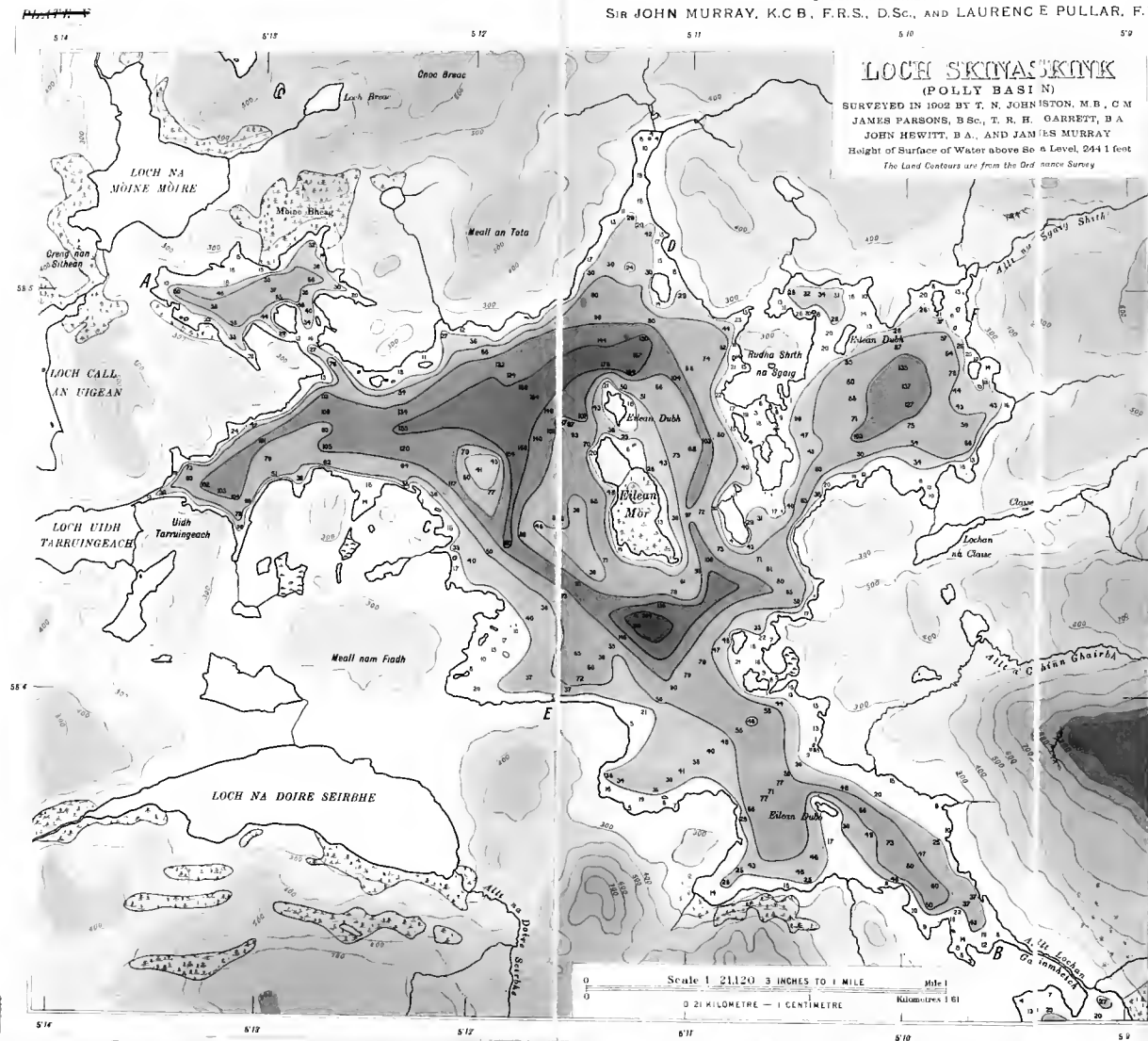
PLATE V

514

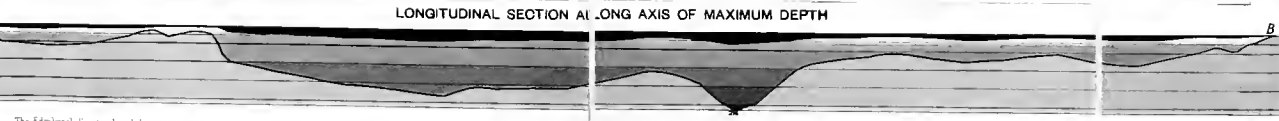


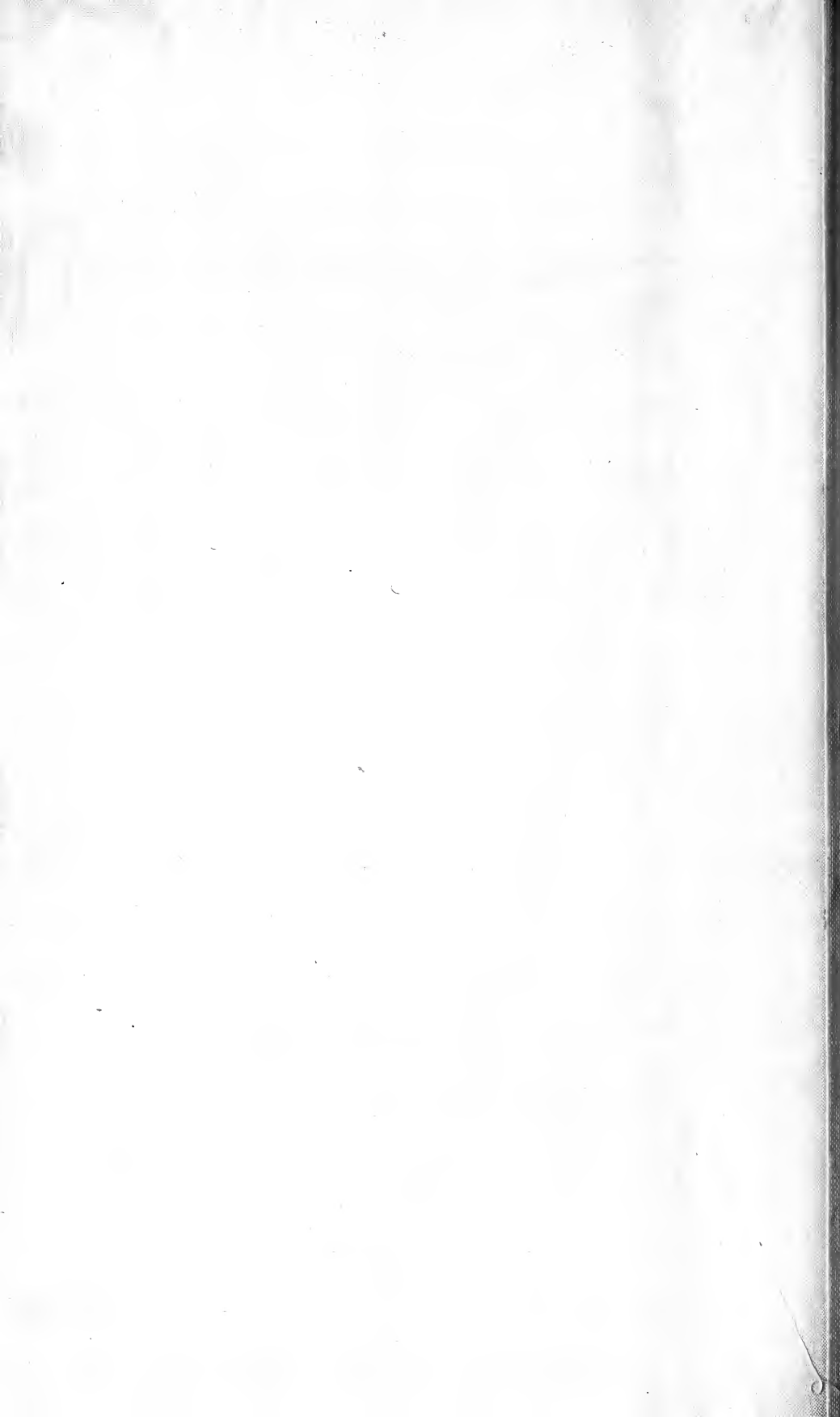
BATHYMETRICAL SURVEY OF THE FRESH-WATER LOCHS OF SCOTLAND

UNDER THE DIRECTION OF
SIR JOHN MURRAY, K.C.B., F.R.S., D.Sc., AND LAURENCE PULLAR, F.R.S.E.

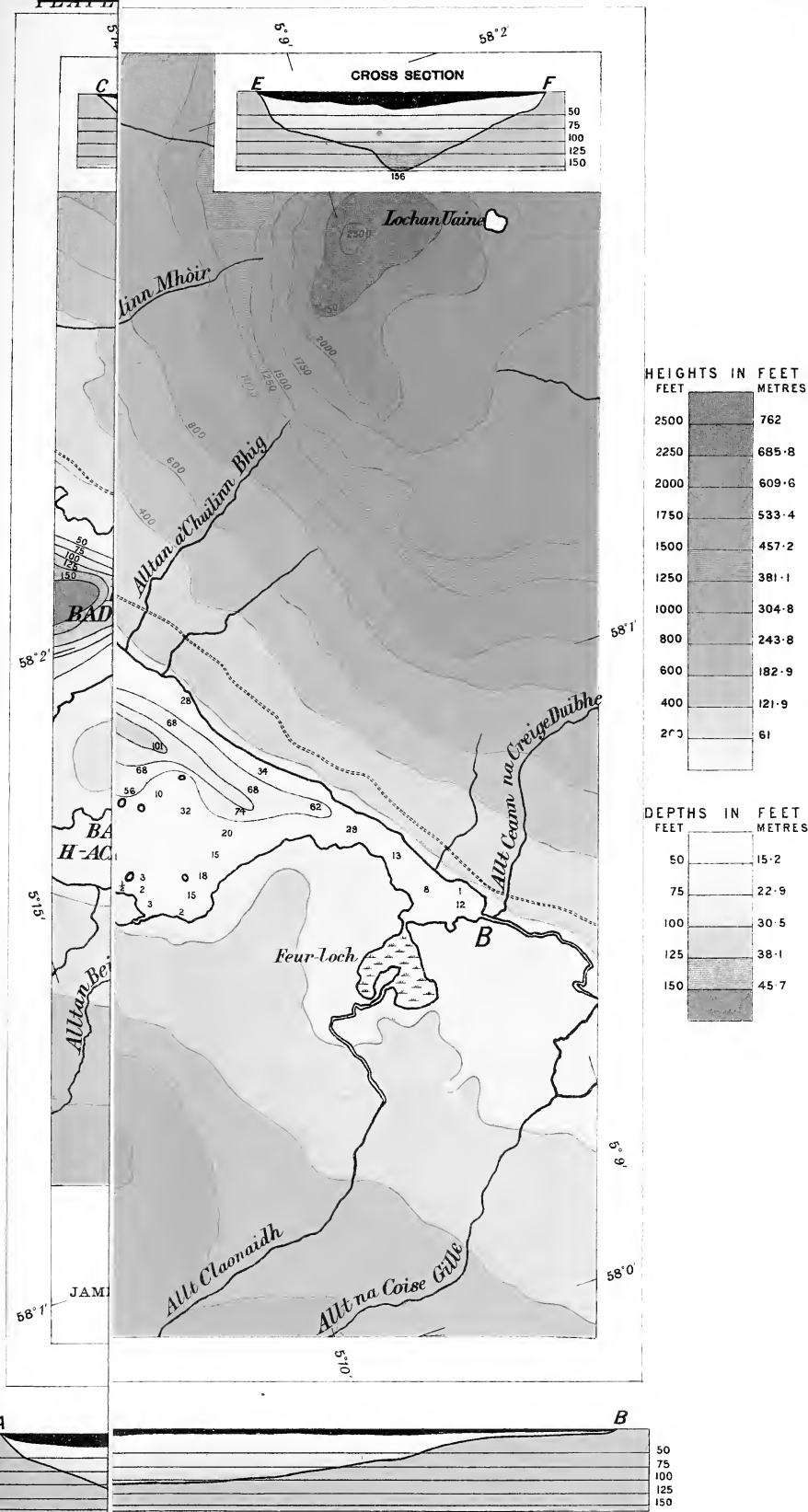


NOTE TO SECTIONS
Scale of Length 3 inches = 1 Mile same as in Map
The Black Part in this Section as the same Scale, the Blue Colour shows the Section with Depth exaggerated 5 times.

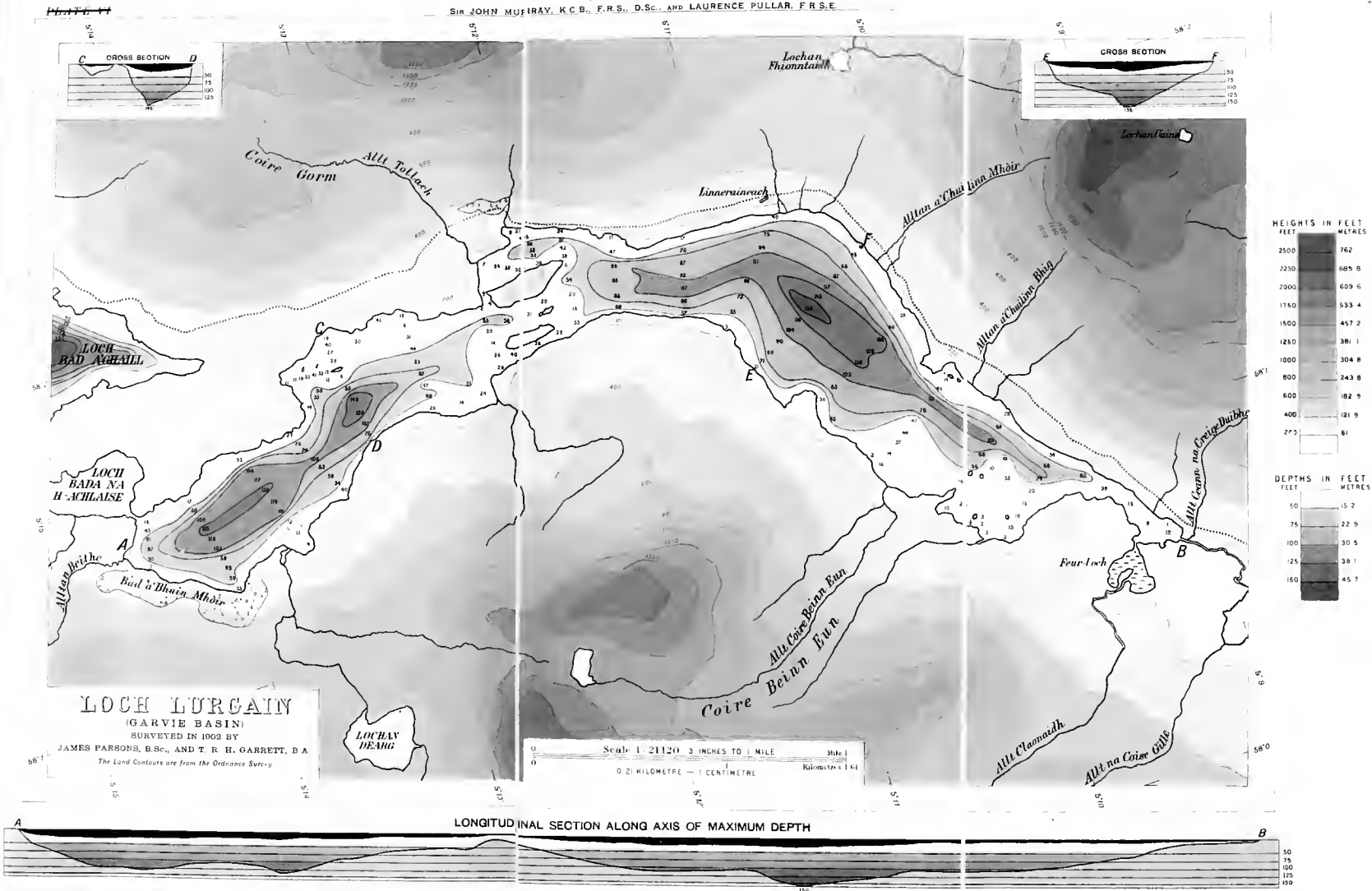




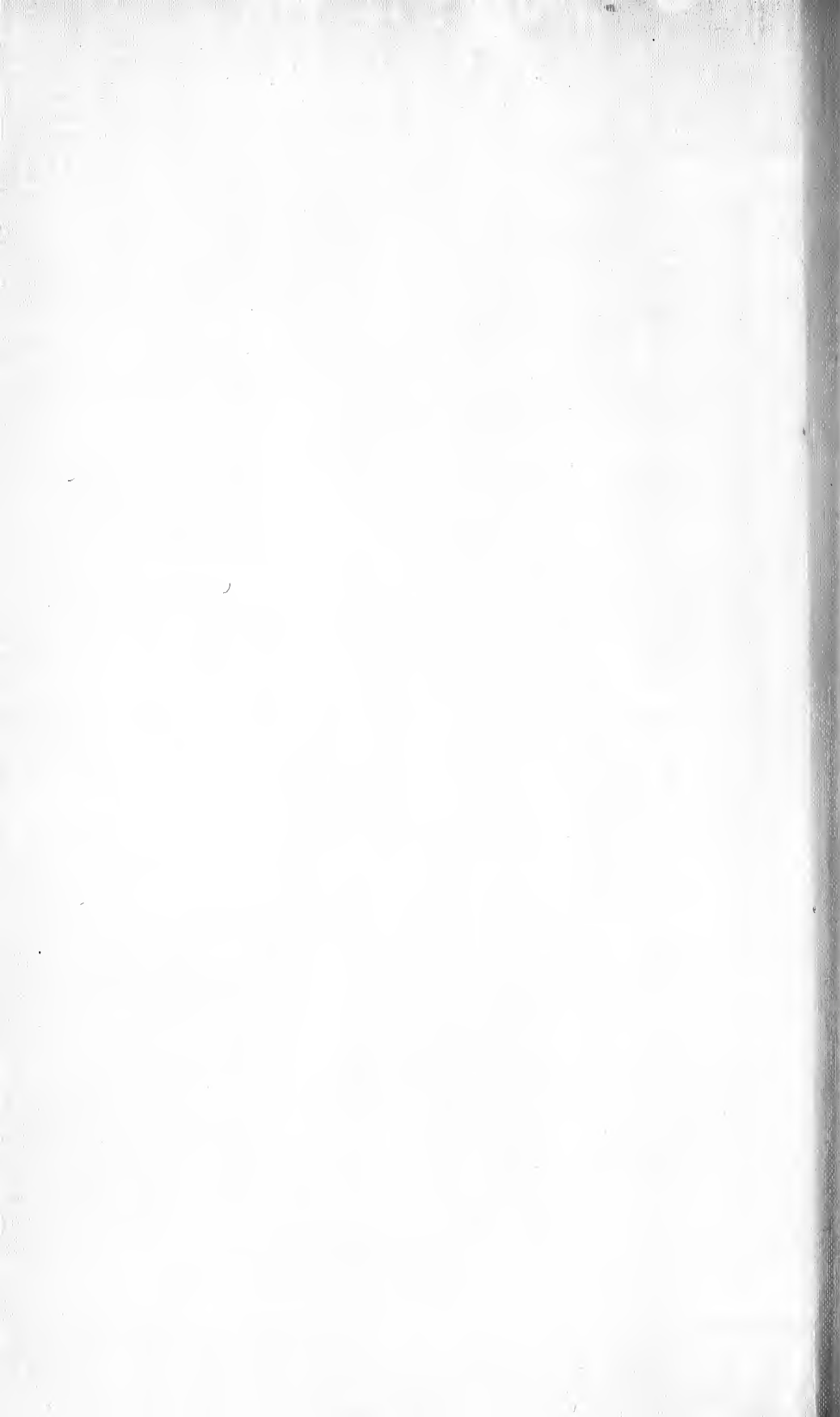
PLATE



SIR JOHN MUIRAY, K.C.B., F.R.S., D.S.C., AND LAURENCE PULLAR, F.R.S.E.



LONGITUDINAL SECTION ALONG AXIS OF MAXIMUM DEPTH



BAT

5'17

58'3"



58'2"

BATHYMETRICAL SURVEY OF THE FRESH-WATER LOCHS OF SCOTLAND

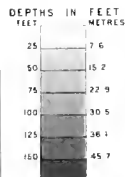
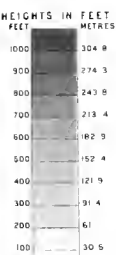
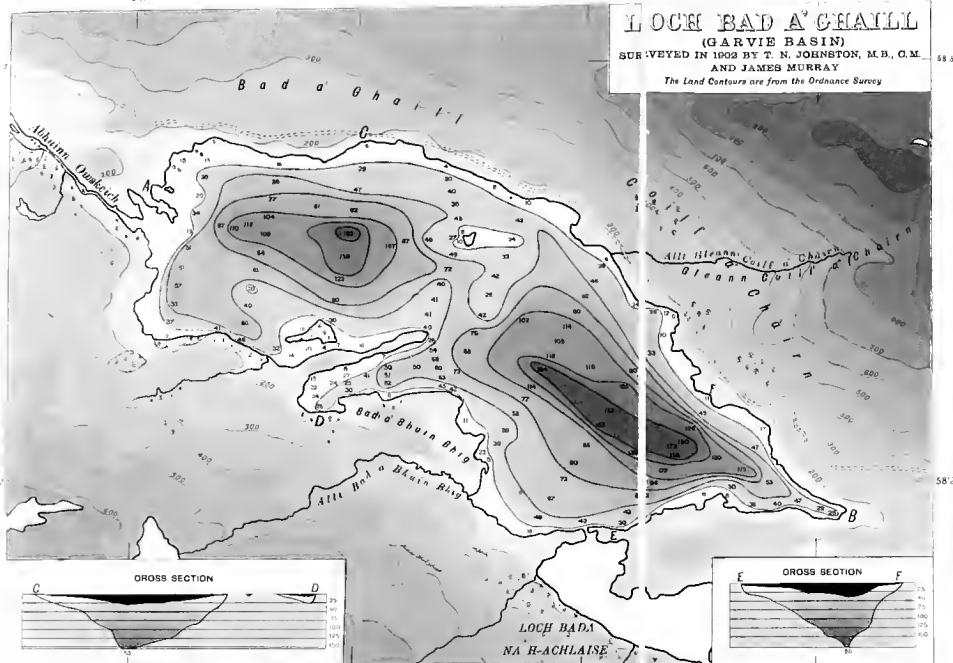
UNDER THE DIRECTION OF
SIR JOHN MURRAY K.C.B., F.R.S., D.S.C., AND LAURENCE PULLAR, F.R.S.E.

5 17 5 18 5 19 5 20

LOCH BAD A' GHAILL

(GARVIE BASIN)
SURVEYED IN 1902 BY T. N. JOHNSTON, M.B., O.M.
AND JAMES MURRAY

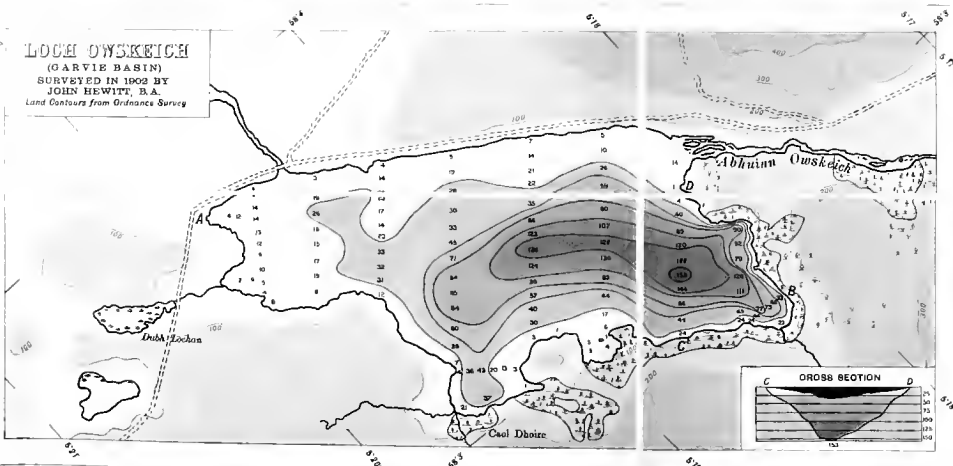
The Land Contours are from the Ordnance Survey



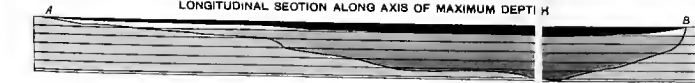
LONGITUDINAL SECTION ALONG AXIS OF MAXIMUM DEPTH

LOCH OWSKEICH

(GARVIE BASIN)
SURVEYED IN 1902 BY
JOHN HEWITT, B.A.
Land Contours from Ordnance Survey

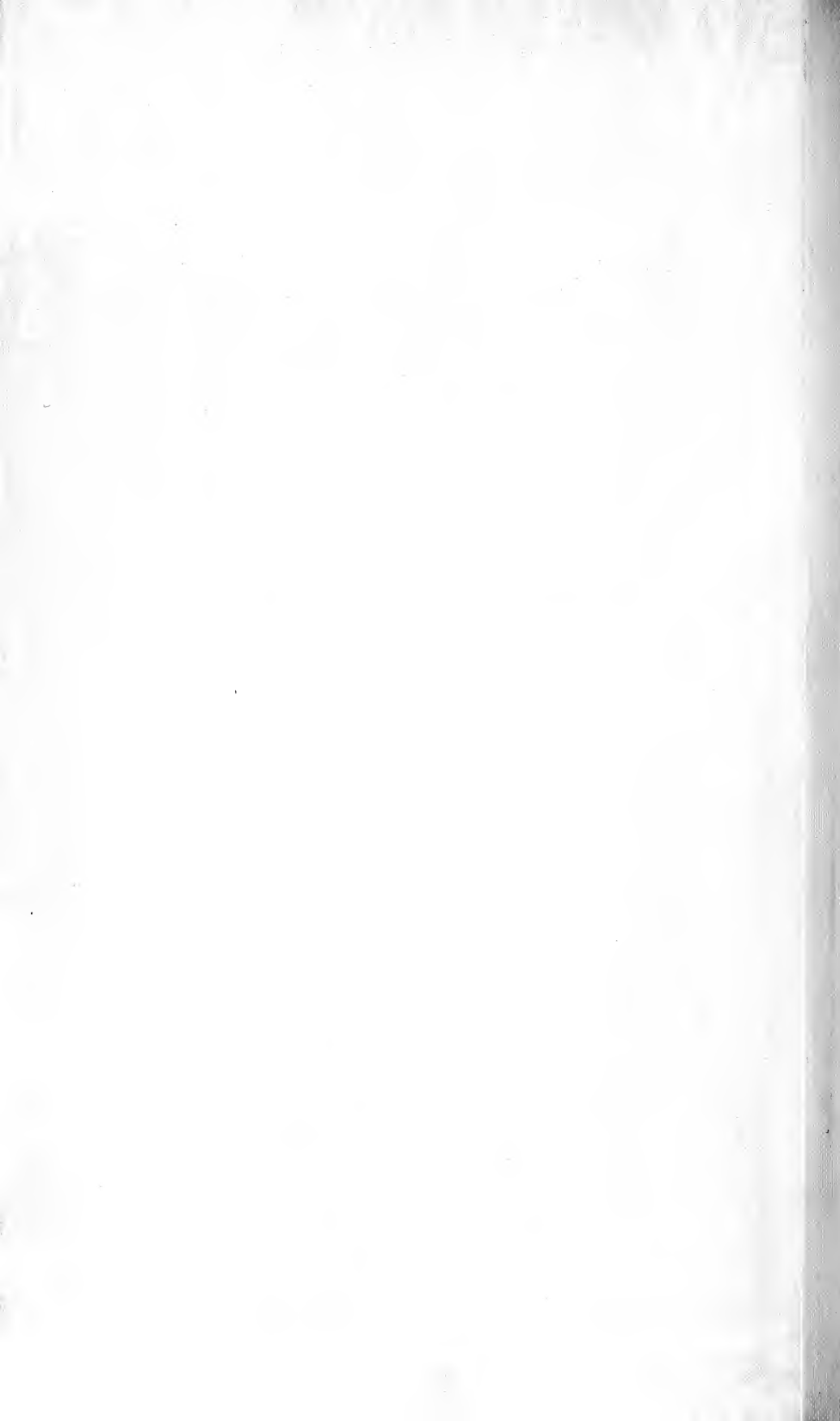


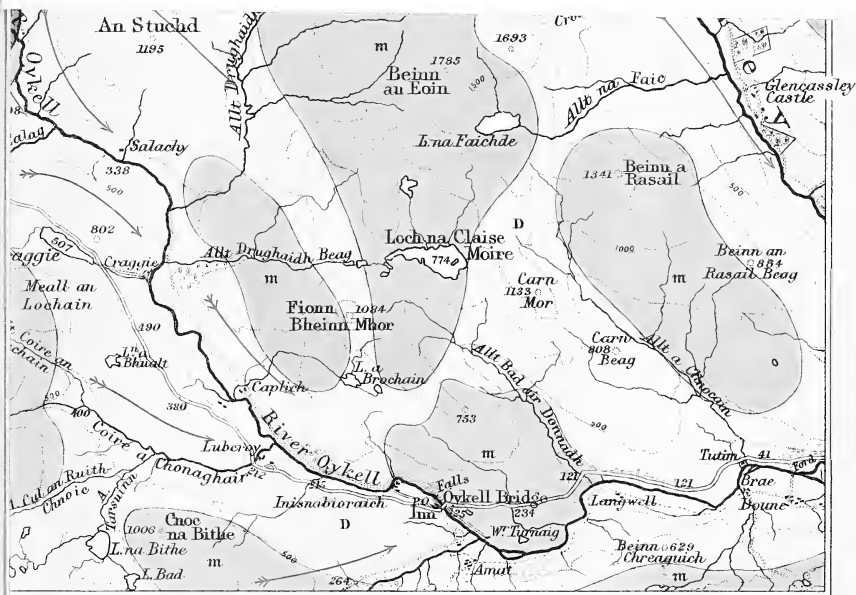
LONGITUDINAL SECTION ALONG AXIS OF MAXIMUM DEPTH



Scale 1:21120 3 INCHES TO 1 MILE
0 21 KILOMETRE - 1 CENTIMETRE

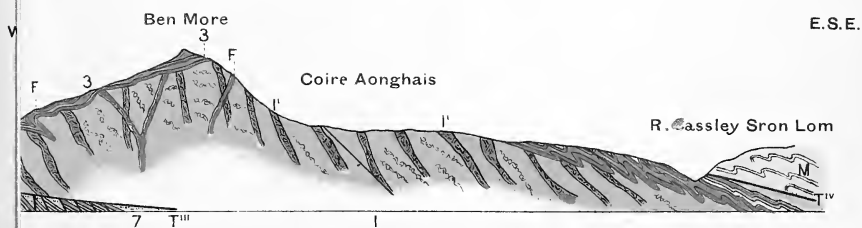
NOTE TO SECTION
Scale of Length 3 inches = 1 Mile same as in Map
The Black Part is 1/10 section on the same Scale, the Blue Colour
shows the Depth exaggerated 5 times.



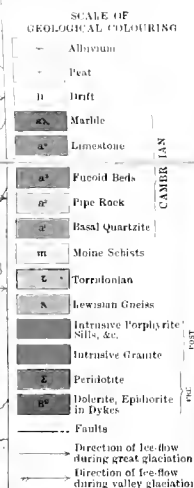


Scale $1\frac{3}{8}$ of an inch=1 Mile

2 Miles



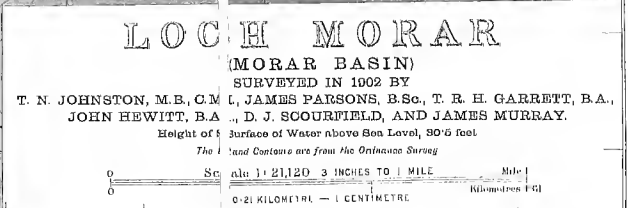
UNDER THE DIRECTION OF
SIR JOHN MURRAY, K.C.B., F.R.S., D.Sc., AND LAURENCE PULLAR, F.R.S.E.



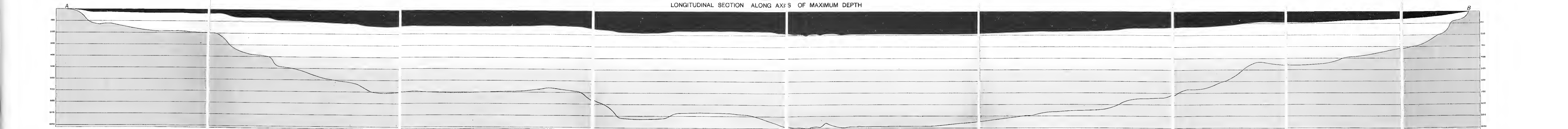


UNDER THE DIRECTION OF
B. F.R.S., D.Sc., AND L. LAURENCE PULLAR, F.R.S.E.

SIR JOHN MURRAY, K.C.B., F.R.S., D.Sc., AND LAURENCE PULLAR, F.R.S.E.



LONGITUDINAL SECTION ALONG AXIS OF MAXIMUM DEPTH





5°32'

LOCH BEORAIÐ

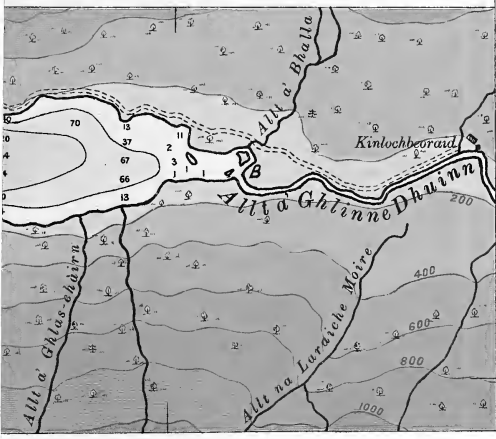
(MORAR BASIN)

SURVEYED IN 1902 BY

JOHN HEWITT, B.A., AND JAMES MURRAY

Height of Surface of Water above Sea Level, 168 feet

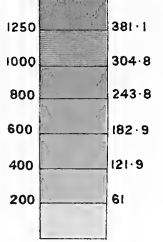
The Land Contours are from the Ordnance Survey



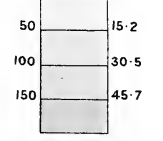
Scale 1: 21,120 3 INCHES TO 1 MILE Mile 1
0.21 KILOMETRE — 1 CENTIMETRE Kilometres 1.61

5°32'

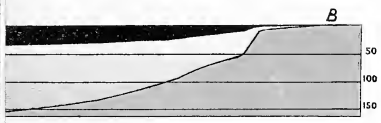
HEIGHTS IN FEET METRES



DEPTHS IN FEET METRES



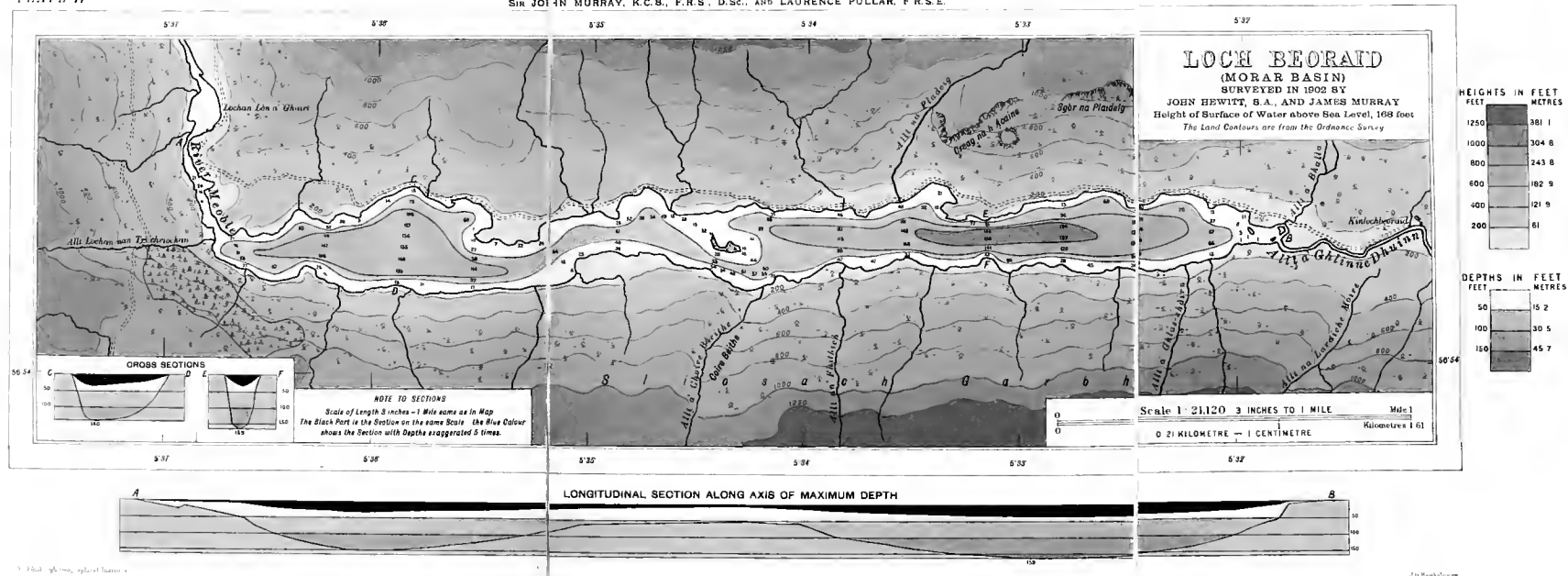
56°54'



J.G. Bartholomew.

BATHYMETRICAL SURVEY OF THE FRESH-WATER LOCHS OF SCOTLAND

UNDER THE DIRECTION OF
SIR JOHN MURRAY, K.C.B., F.R.S., D.Sc., AND LAURENCE PULLAR, F.R.S.E.





~~PLATE III~~

BATHYMETRICAL SURVEY OF

SIR JOHN MURRAY, K.C.B.,

LOCH AN NOSTAR

(MORAR BASIN)

SURVEYED IN 1902 BY JAMES PARSONS, B.
T. R. H. GARRETT, B.A., AND JOHN HEWITT,

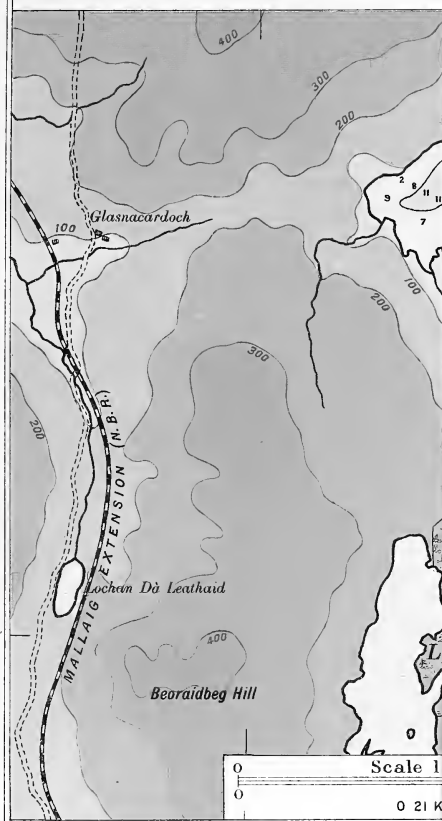
Height of Surface of Water above Sea Level, 89'3

The Land Contours are from the Ordnance Survey

57°0

5°49

56°59



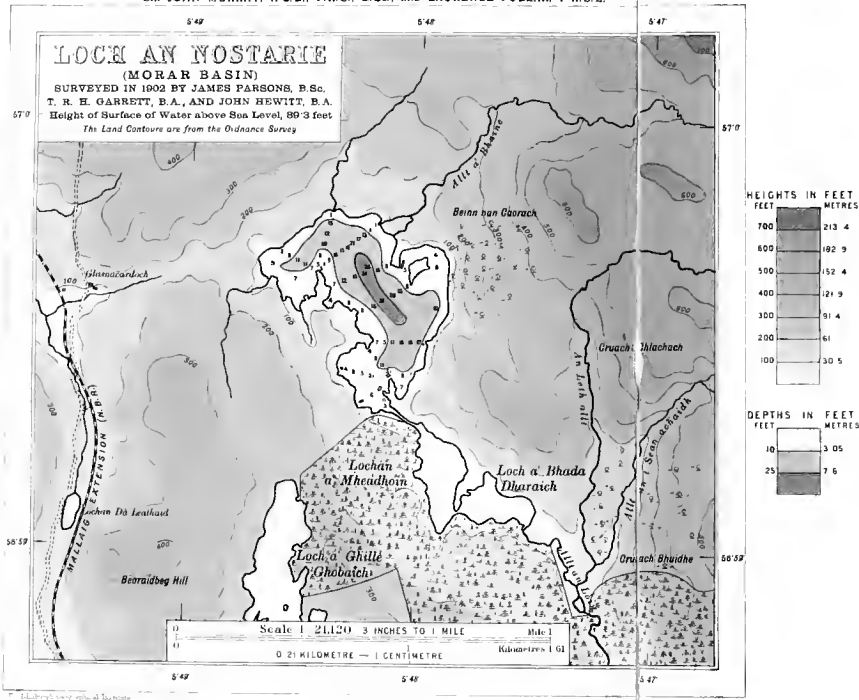
The Edinburgh Geographical Institute

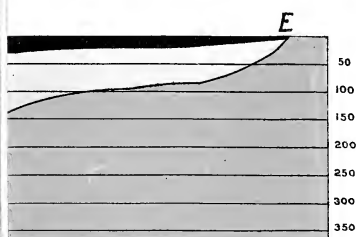
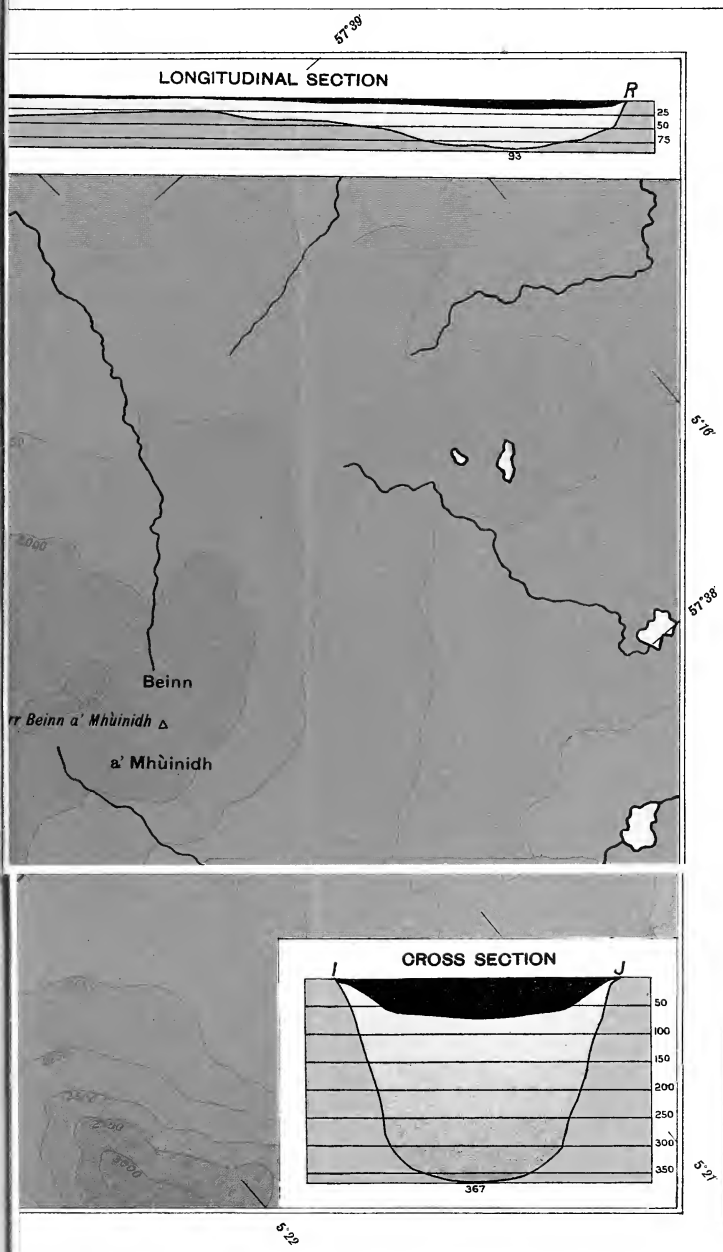
Published by



BATHYMETRICAL SURVEY OF THE FRESH-WATER LOCHS OF SCOTLAND

UNDER THE DIRECTION OF
SIR JOHN MURRAY, K.C.B., F.R.S., D.S.C., AND LAURENCE POLLAR, F.R.S.E.



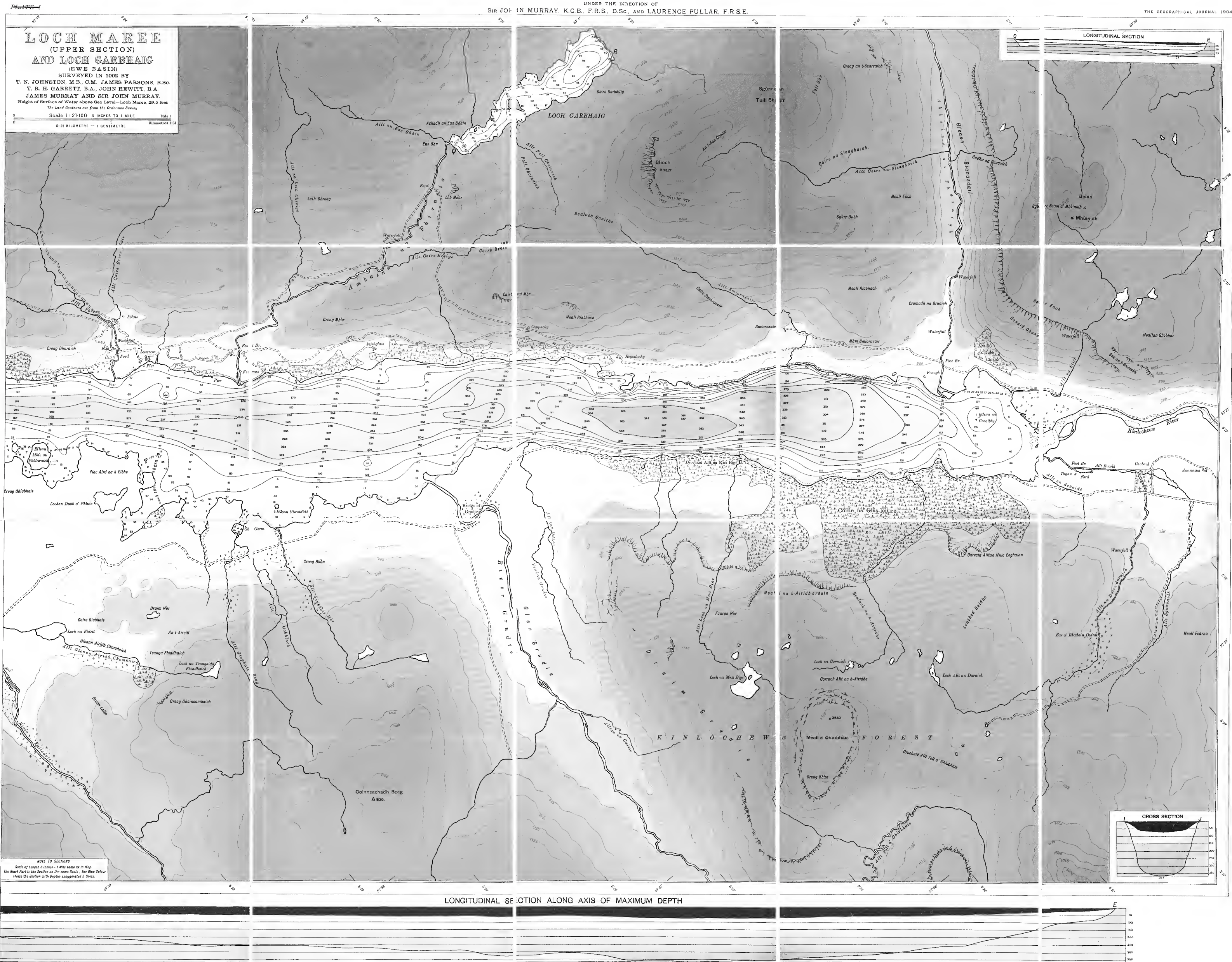




BATHYMETRICAL SURVEY OF THE FRESH-WATER LOCHS OF SCOTLAND

UNDER THE DIRECTION OF
SIR JOHN MURRAY, K.C.B., F.R.S., D.Sc., AND LAURENCE PULLAR, F.R.S.E.

THE GEOGRAPHICAL JOURNAL 1904





S. 26

LOCH MAREE

(LOWER SECTION)

LOCH KERNSARY, LOCH TOLLIE, AND LOCH GHIURAGARSTIDH

(EWE BASIN)

SURVEYED IN 1902 BY

T. N. JOHNSTON, M.B., C.M., JAMES PARSONS, B.Sc.

T. R. H. GARRETT, B.A., JOHN HEWITT, B.A.

JAMES MURRAY AND SIR JOHN MURRAY.

Height of Surface of Water above Sea Level—Loch Maree, 29.5 feet

Loch Kernsary, 68.0 feet, Loch Ghiuragarstidh, 116.7 feet

The Land Contours are from the Ordnance Survey

Scale 1:21,120 3 INCHES TO 1 MILE Mile 1
0 0.21 KILOMETRE — 1 CENTIMETRE Kilometres 1.61



SECTION

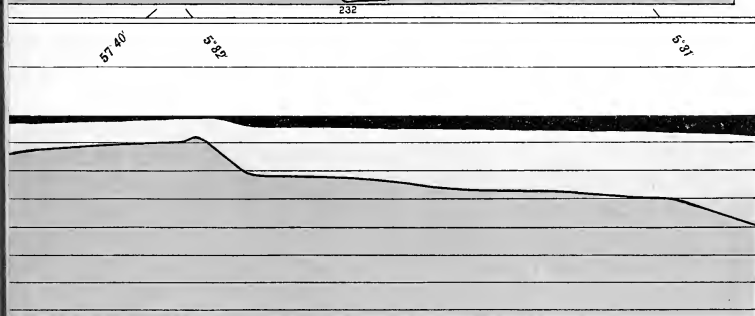
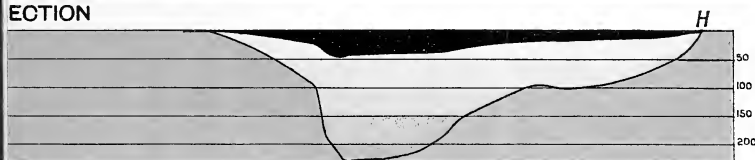
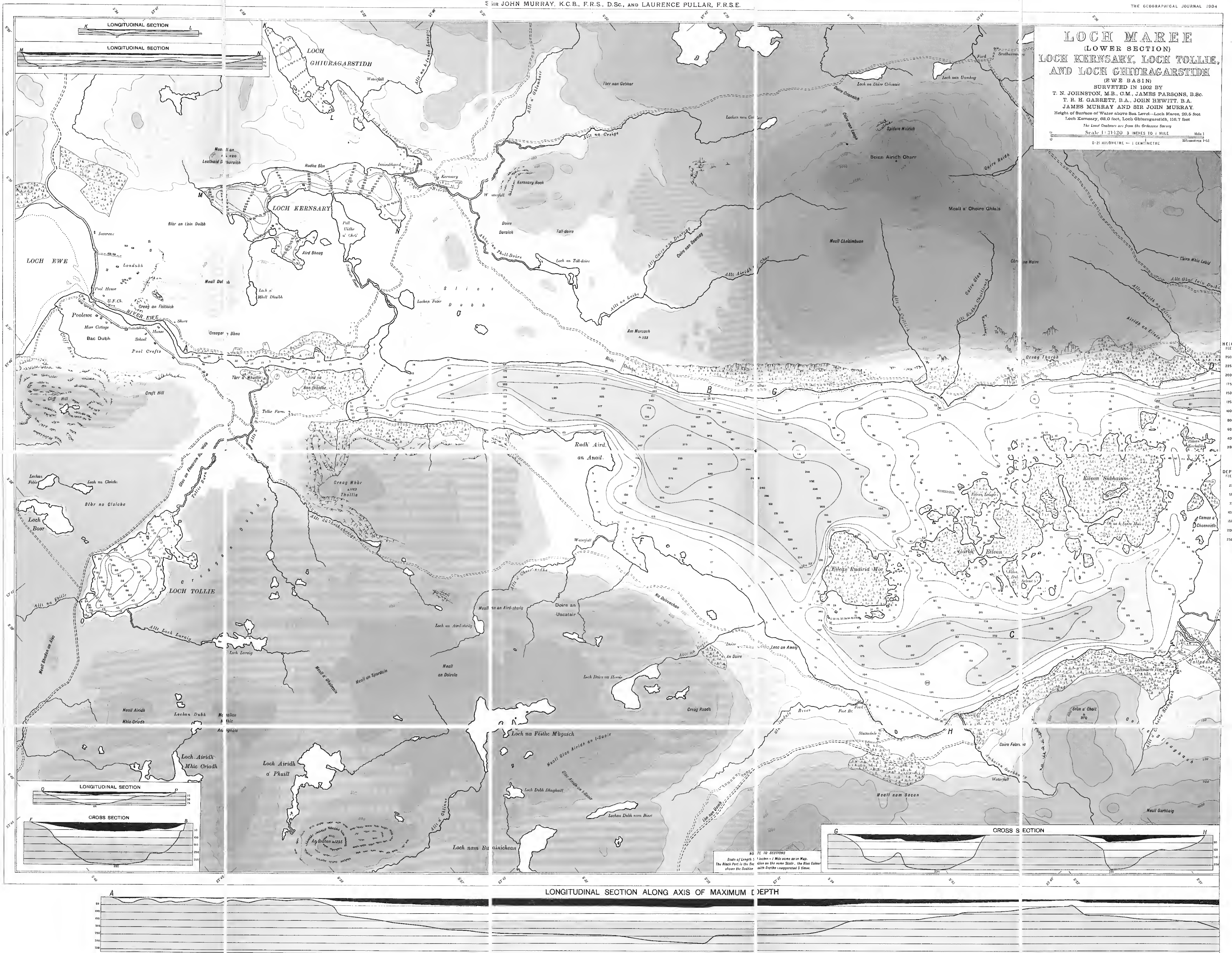




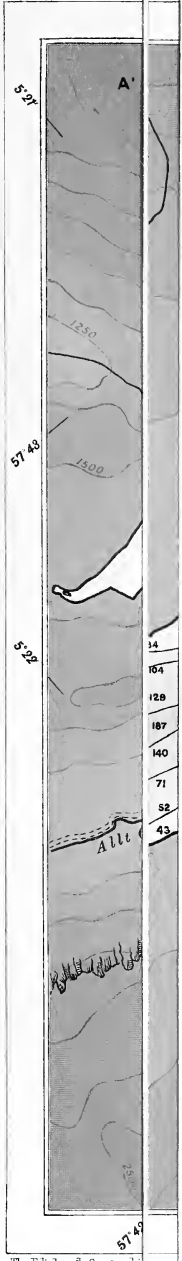
PLATE II



SECTION N B-C-D

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PLATE III



The Edinburgh Geographical

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BATHYMETRICAL SURVEY OF THE FRESH-WATER LOCHS OF SCOTLAND

UNDER THE DIRECTION OF
SIR JOHN MURRAY, K.C.B., F.R.S., D.Sc., AND LAURENCE PULLAR, F.R.S.E.

THE GEOGRAPHICAL JOURNAL 1904

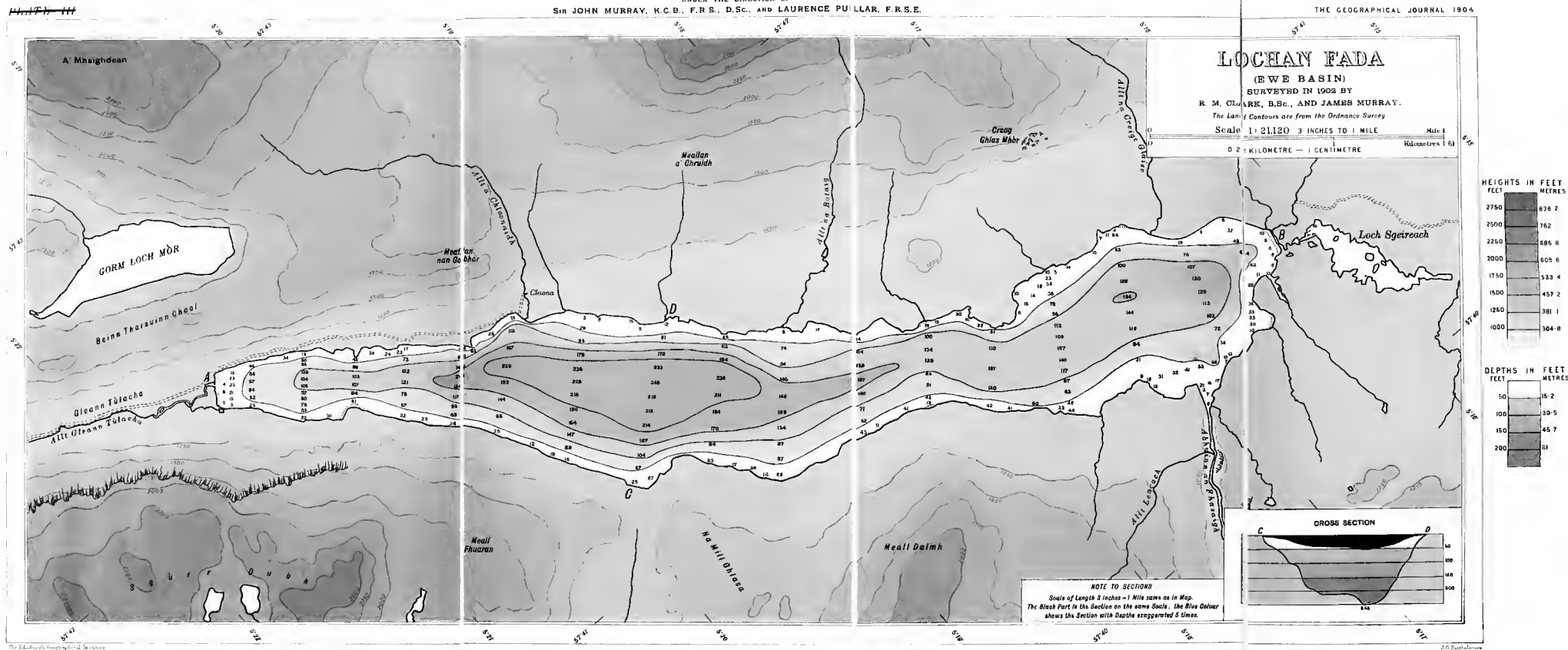
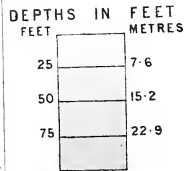
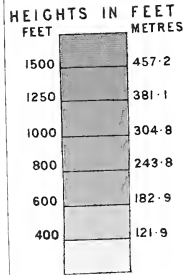
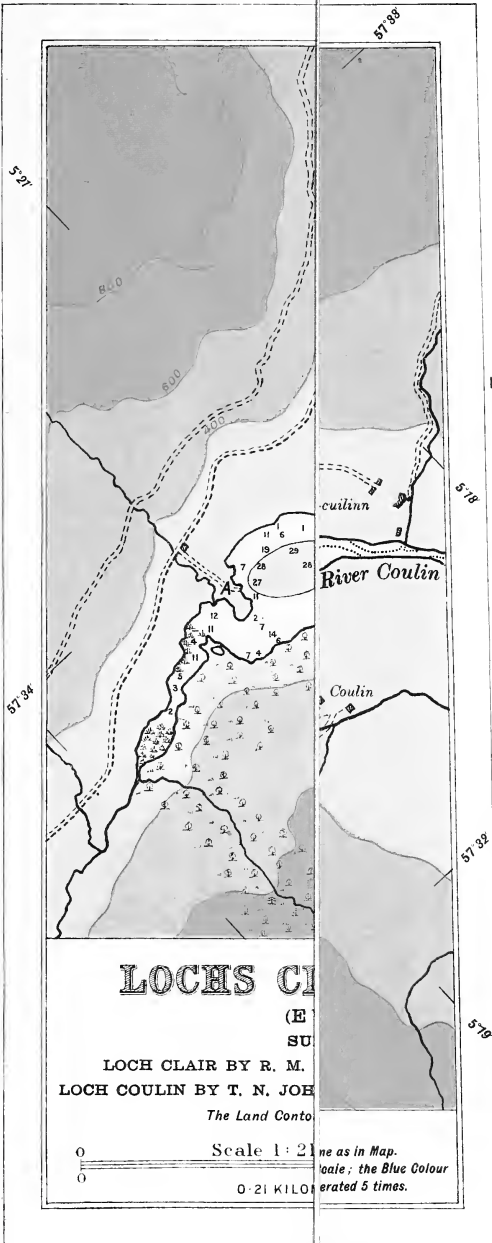




PLATE IV

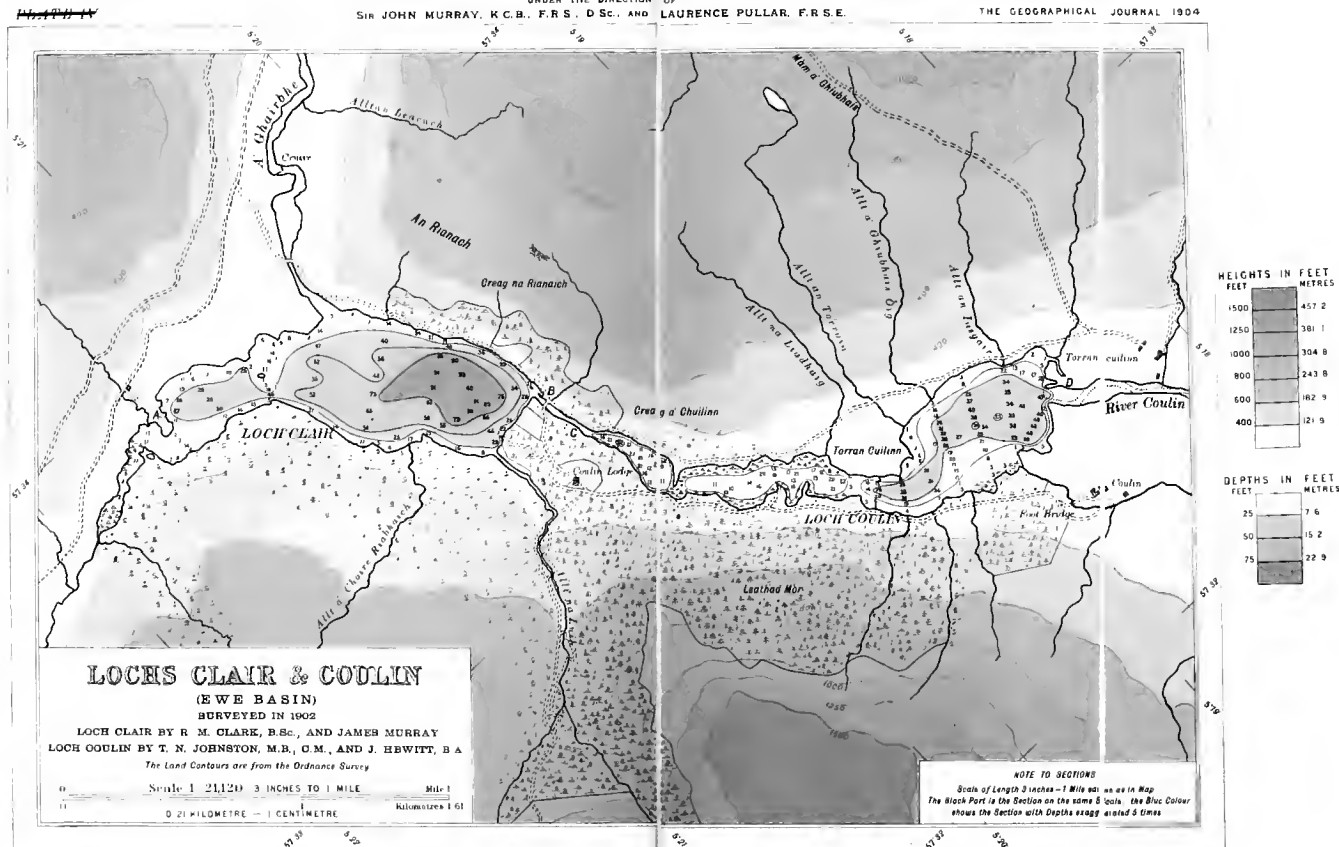
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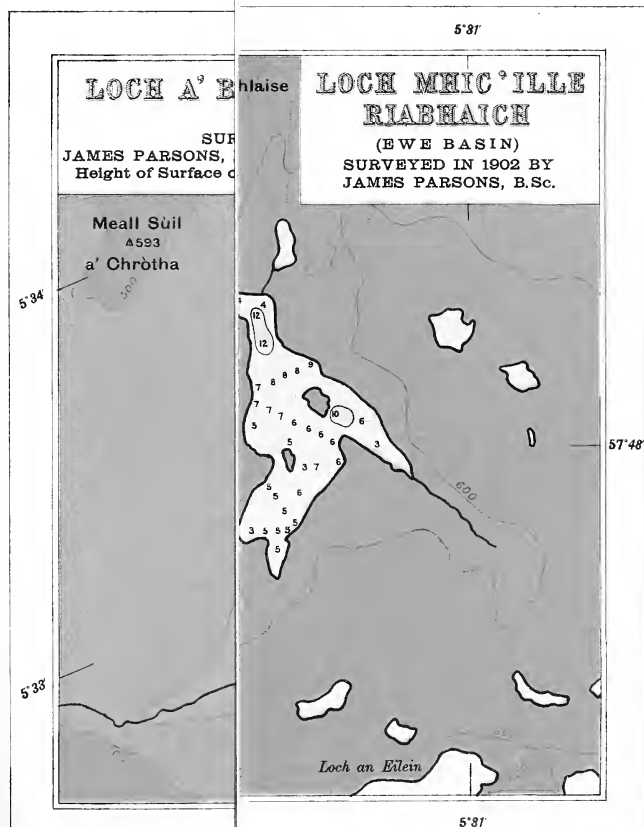
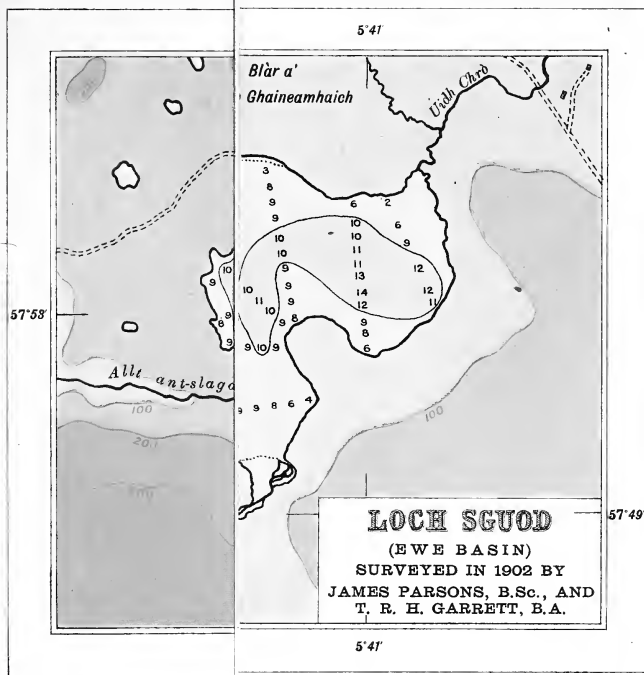
THE GEOGRAPHICAL JOURNAL 1904



LONGITUDINAL SECTIONS ALONG AXIS OF MAXIMUM DEPTH

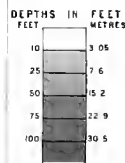
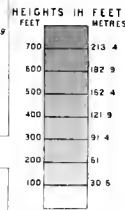
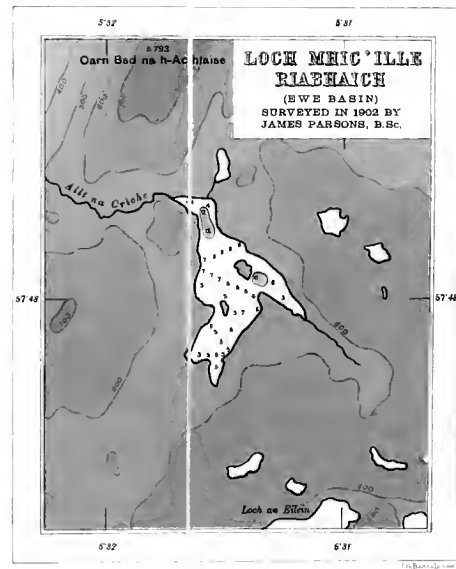
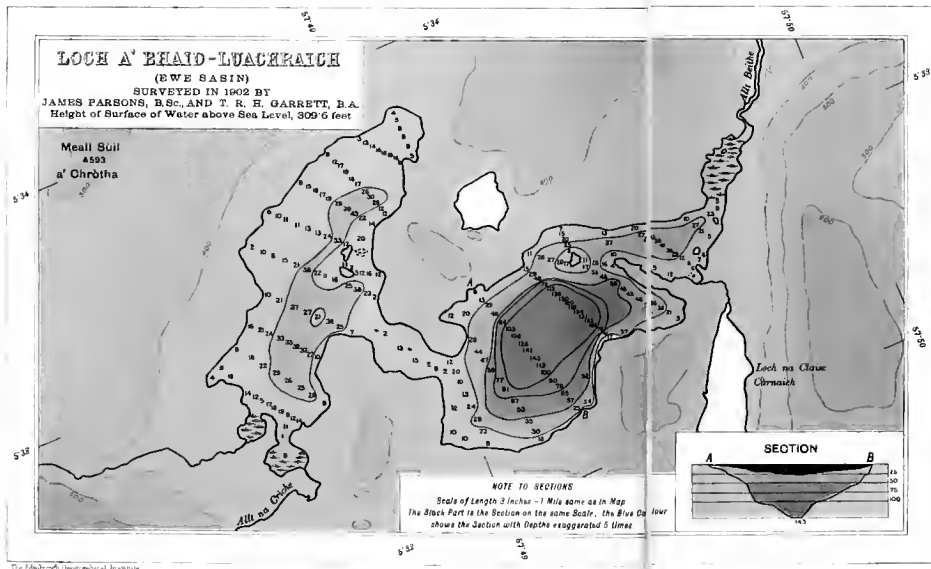
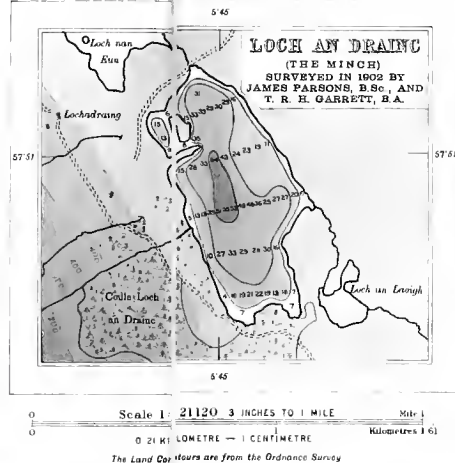
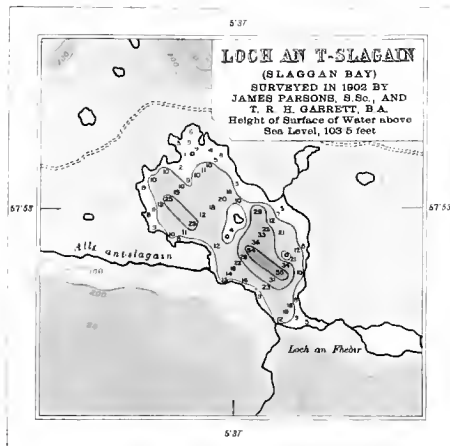


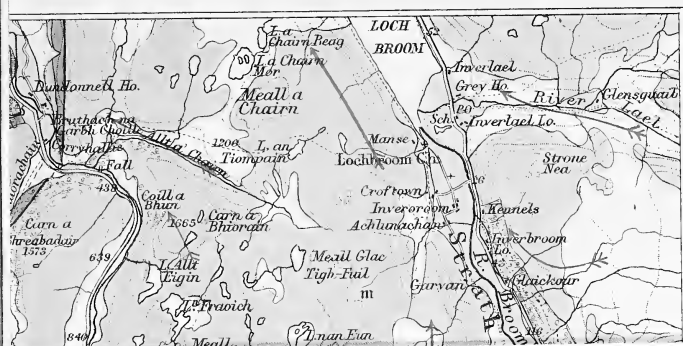
PLATE 4



BATHYMETRICAL SURVEY OF THE FRESH-WATER LOCHS OF SCOTLAND

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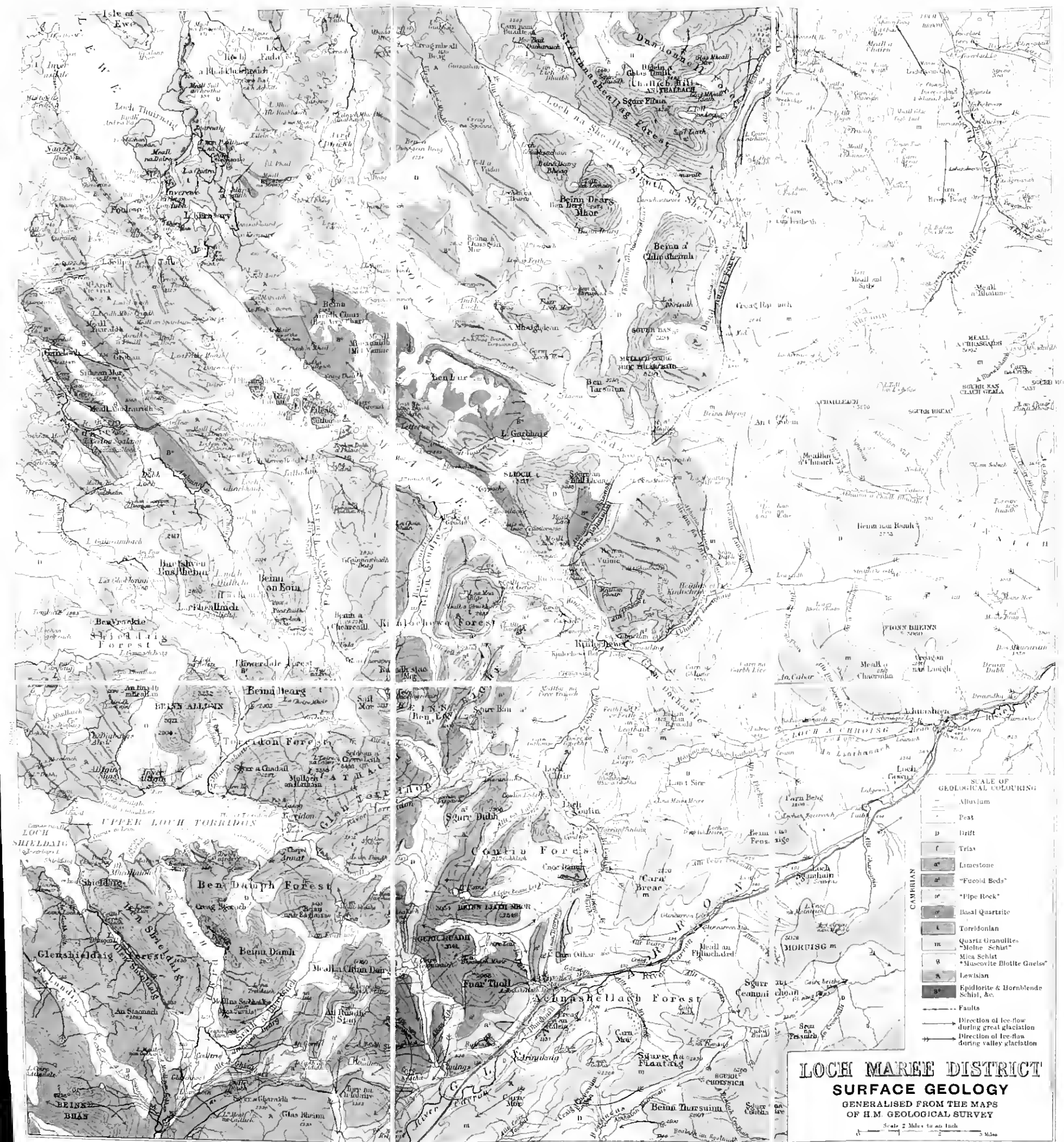


BATHYMETRICAL SURVEY OF THE FRESH-WATER LOCHS OF SCOTLAND

UNDER THE DIRECTION OF
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